

**RESOLUTION NO. 08-72**

RESOLUTION OF THE MAYOR AND THE CITY COUNCIL OF THE CITY OF HIALEAH, FLORIDA AUTHORIZING THE MAYOR AND THE CITY CLERK, AS ATTESTING WITNESS, ON BEHALF OF THE CITY, TO ENTER INTO A FUNDING RECONFIGURATION AGREEMENT WITH NEXTEL OPERATIONS, INC., A SUBSIDIARY OF SPRINT NEXTEL CORPORATION, A KANSAS CORPORATION, A COPY OF WHICH IS ATTACHED HERETO AND MADE A PART HEREOF AS EXHIBIT "1", THAT PROVIDES FOR NEXTEL OPERATIONS TO PAY THE CITY FOR THE COST OF PLANNING ACTIVITIES IN CONNECTION WITH THE REBANDING OR RECONFIGURATION OF THE 800 MHz CHANNEL OR FREQUENCY USED BY THE CITY IN AN ESTIMATED AMOUNT NOT TO EXCEED \$1,095,793.25.

**WHEREAS**, Sprint-Nextel operated on a band or frequency that was close to and was subject to interference with, most local government public safety communications systems operating a 800 MHz channel, including the City of Hialeah; and

**WHEREAS**, pursuant to a series of orders of the Federal Communications Commission (FCC) in 2004, certain licensees of 800 MHz channels used in public safety or other systems were required to relinquish their existing channels and relocate their systems to other licensed channels and Sprint-Nextel was also required to relinquish some of its existing channels and provide and pay relocation (planning costs) funds to relocate the local government public safety systems onto replacement channels and reconfigure their systems so that they are comparable facilities; and

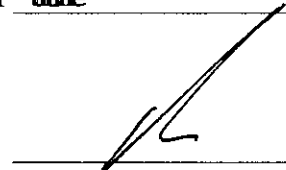
**WHEREAS**, the FCC further mandated that Sprint-Nextel negotiate the terms and conditions of the reconfiguration agreements with local governments and to reimburse local governments for reconfiguration implementation costs; and

**WHEREAS**, the FCC appointed a Transition Administrator to assure that the rebanding initiative proceeds on schedule in a planned and coordinated manner so that the disruption to a licensee's system is minimized.

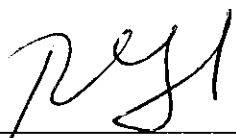
NOW, THEREFORE, BE IT RESOLVED BY THE MAYOR AND THE CITY COUNCIL OF THE CITY OF HIALEAH, FLORIDA, THAT:

**Section 1:** The City of Hialeah, Florida hereby authorizes the Mayor and the City Clerk, as attesting witness, on behalf of the City, to enter into a Reconfiguration Funding Agreement with Nextel Operations, Inc., a subsidiary of Sprint Nextel Corporation, a Kansas corporation, a copy of which is attached hereto and made a part hereof as Exhibit "1", that provides for Nextel Operations to pay the City for the cost of activities in connection with the rebanding or reconfiguration of the 800 MHz channel or frequency used by the City in an estimated amount not to exceed \$1,095,793.25.

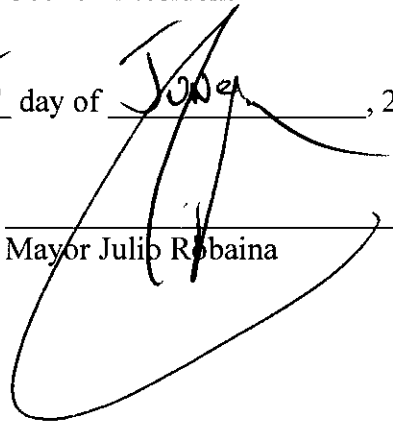
PASSED AND ADOPTED this 24th day of June, 2008.

  
\_\_\_\_\_  
Esteban Bovo  
Council President

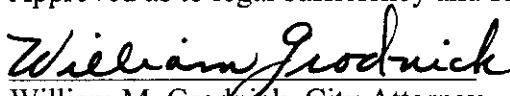
Attest:

  
\_\_\_\_\_  
Rafael E. Granado, City Clerk

Approved on this 25 day of June, 2008.

  
\_\_\_\_\_  
Mayor Julio Robaina

Approved as to legal sufficiency and form:

  
\_\_\_\_\_  
William M. Grodnick, City Attorney

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Resolution was adopted by a unanimous vote with Councilmembers Bovo, Caragol, Casals-Muñoz, Garcia-Martinez, Gonzalez, Hernandez, and Yedra voting "Yes".

**FREQUENCY RECONFIGURATION AGREEMENT**

THIS FREQUENCY RECONFIGURATION AGREEMENT (this "Agreement") is made as of this \_\_\_\_ day of \_\_\_\_\_, 2008 ("Effective Date"), by and between the **City of Hialeah**, a political subdivision of the State of Florida ("Incumbent"), and **Nextel South Corp.** ("Nextel"), a wholly owned indirect subsidiary of Nextel Communications, Inc., a Delaware corporation (each is referred to in this Agreement as a "Party" and collectively as the "Parties").

**RECITALS**

- A. On August 6, 2004, the Federal Communications Commission ("FCC") issued a report and order that modified its rules governing the 800 MHz band. The purpose of the order was to reconfigure the 800 MHz band to minimize harmful interference to public safety radio communications systems in the band ("Reconfiguration").
- B. On December 22, 2004, the FCC issued a Supplemental Order and Order on Reconsideration. The August 6, 2004 and December 22, 2004 FCC orders, any binding actions issued by the Transition Administrator pursuant to its delegated authority under the orders ("Actions"), and any supplemental FCC orders in the Reconfiguration proceeding or subsequent Actions after the date of this Agreement, are collectively referred to as the "Order."
- C. Pursuant to the Order, Incumbent and Nextel are licensed on frequency allocations subject to Reconfiguration.
- D. Pursuant to the Order, Nextel will pay Incumbent an amount to effect a Reconfiguration of Incumbent's affected frequency allocations ("Reconfiguration Cost"). Incumbent will certify to the transition administrator appointed pursuant to the Order (the "Transition Administrator") that the Reconfiguration Cost is the minimum amount necessary to provide comparable facilities.

FOR GOOD AND VALUABLE CONSIDERATION, THE RECEIPT OF WHICH IS HEREBY ACKNOWLEDGED, THE PARTIES AGREE AS FOLLOWS:

**AGREEMENT**

**1. Frequencies to be Reconfigured:** Incumbent is the licensee under the license(s) granted by the FCC identified in Schedule A (the "Incumbent Licenses") for the operation of certain 800 MHz frequencies at the locations identified on Schedule A (the "Incumbent Frequencies"). Nextel, including its subsidiaries or affiliates, is the licensee under license(s) granted by the FCC (the "Nextel Licenses") for the operation of Specialized Mobile Radio ("SMR") systems on the frequencies and at the locations identified in Schedule B (the "Replacement Frequencies"). Pursuant to the Order, Incumbent must relinquish the Incumbent Frequencies and relocate its system to the Replacement Frequencies.

**2. Frequency Reconfiguration Process:**

(a) On or before the Closing Date (as defined below) (i) Nextel or Incumbent will cause the modification of the Incumbent Licenses to add the Replacement Frequencies or Nextel will cause the creation of a new FCC license for Incumbent that includes the Replacement Frequencies; (ii) Incumbent will assign the Incumbent Frequencies to Nextel or at Nextel's election will cause the deletion of the Incumbent Frequencies from the Incumbent Licenses following Reconfiguration of Incumbent's system; and (iii) Nextel will cause the modification and/or cancellation of the FCC licenses it holds for the operation of 800 MHz frequencies that are co-channels of the Replacement Frequencies, to the extent

required to meet the technical short-spacing requirements of Section 90.621(b) of the FCC's Rules, 47 C.F.R. § 90.621(b) ("Section 90.621(b)"), as such rule may be amended from time to time by the FCC.

(b) The Parties agree that Nextel will make the FCC assignment filings for the Replacement Frequencies on a future date to be determined by the Parties through mutual agreement in accordance with Section 5. The Incumbent reserves the right to make its own FCC filings for the Replacement Frequencies on such mutually agreed date, rather than relying on Nextel to do so, by so notifying Nextel in accordance with the Notice provision of this Agreement.

**3. Reconfiguration Costs:**

(a) Acknowledgement of Obligations. Incumbent agrees that:

(i) the cost estimate set forth in Schedule C (the "Cost Estimate") and the equipment set forth on Schedule D, sets forth all of the work identified in the Planning Phase and anticipated by the City as of the Effective Date required to reconfigure Incumbent's existing facilities to comparable facilities that will operate on the Replacement Frequencies; and

(ii) after all of the work contemplated by the Cost Estimate has been performed and all Schedule D equipment provided in accordance with this Agreement, and Nextel has paid all amounts required by this Agreement, as it may be amended, the Incumbent's reconfigured system shall be deemed for all purposes of the Order to be "comparable" to Incumbent's existing system prior to Reconfiguration, and Nextel shall be deemed to have satisfied its obligations under the Order to pay the cost of relocating Incumbent's system from the Incumbent Frequencies to the Replacement Frequencies.

(b) Payment Terms. In order to facilitate the Incumbent's transition to the Replacement Frequencies, Nextel will pay the costs incurred to reconfigure Incumbent's system in an amount not to exceed the Cost Estimate. Nextel will make payments in accordance with the payment terms identified on Schedule C for both payments made directly to Incumbent and payments made on behalf of Incumbent directly to each third party vendor identified on the Cost Estimate ("Vendor"). In addition to any items on Schedule C, Motorola, Inc. ("Motorola") will be providing Incumbent the equipment specifically identified on Schedule D as "Motorola Schedule D Equipment" (the "Motorola Schedule D Equipment"). Incumbent will enter into a purchase commitment with Motorola for the Motorola Schedule D Equipment and any Motorola items listed on Schedule C within ~~30~~ 30 business days from the Effective Date. Nextel and Motorola have entered into an agreement enabling Nextel to pay for the Motorola Schedule D Equipment. Nextel will make payments directly to Motorola on behalf of Incumbent for the Motorola Schedule D Equipment and will make payments to Motorola as a "Vendor", as that term is used in this Agreement, for all Motorola costs identified on Schedule C. In order for Nextel to make payments to Motorola for the Motorola Schedule D Equipment, Incumbent will fax to Nextel a bill of lading associated with each shipment of Motorola Schedule D Equipment signed by an authorized representative of Incumbent acknowledging receipt of the Motorola Schedule D Equipment in good working order. Incumbent will be required to follow all Vendor related procedures identified in this Agreement for all Motorola Services and other Motorola costs identified on Schedule C.

(i) Within thirty (30) days of completion of Incumbent's reconfiguration and prior to the Reconciliation Date (as defined below), Incumbent will submit to Nextel all documentation demonstrating the actual costs that Incumbent reasonably incurred or paid to other entities to reconfigure Incumbent's system ("Actual Costs"). The documentation of Actual Costs ("Documentation") required by Nextel from Incumbent may include but is not limited to the following: (A) invoices for Actual Costs that are associated with a category of work as identified on Schedule C; (B) receipts substantiating the Actual Costs including receipts for any travel expenses incurred by Incumbent such as hotel invoices,

airfare receipts, etc.; (C) Incumbent's individual employee work orders, time sheets and associated general ledger records specifying the name of the person or employee performing work for Incumbent, the date work was performed, the hours worked and a description of the activity performed; (D) inventory lists and certified statements of the numbers of tasks completed for reconfiguration; (E) the applicable Exhibit B internal labor certifications. Upon receipt by Nextel of the Documentation for all Actual Costs and subject to ~~Section~~Sections 20(b) and 21(b), Nextel and Incumbent will reconcile the Actual Costs against the payments made by Nextel to Incumbent, Vendor(s) and Motorola (for Motorola Services and/or other Motorola costs identified on Schedule C) and the Parties will agree upon the amount of any additional payments (subject to Section 8) due to Incumbent or any refunds due to Nextel. The effective date of agreement on reconciliation of Actual Costs, Motorola Replaced Equipment (as defined in Section 20) and Nextel Replaced Equipment (as defined in Section 21) and receipt by Nextel of the Reconciliation Statement signed by Incumbent is the "Reconciliation Date".

(ii) Any additional payments due to Incumbent from Nextel will be disbursed to Incumbent within thirty (30) days of the Reconciliation Date, provided the additional payments do not result from Actual Costs that exceed the Cost Estimate (in which case the provisions of Section 3(b)(iii) of this Agreement will apply). Any refunds due from the Incumbent to Nextel will be made within thirty (30) days of the Reconciliation Date.

(iii) In the event Incumbent's Actual Costs exceed the Cost Estimate, Incumbent must submit a Change Notice pursuant to Section 8 of this Agreement describing the change in scope of work that resulted in Incumbent's Actual Costs exceeding the Cost Estimate. Approval of any Change Notice will not be automatic but will be processed in accordance with Section 8 of this Agreement. Additional payments due to Incumbent, Vendor(s) or Motorola (for Motorola Services and/ or other Motorola costs identified on Schedule C), which result from an excess of Actual Costs over the Cost Estimate, as agreed on the Reconciliation Date, will be disbursed to Incumbent, Vendor or Motorola (for Motorola Services and/ or other Motorola costs identified on Schedule C) within thirty (30) days of execution by the Parties of the Amendment documenting the approved changes from such Change Notice.

(iv) Prior to the Closing Date (as defined below), Nextel will pay on behalf of itself and Incumbent, both Parties' applicable sales and transfer taxes, if any, and all FCC fees in connection with the preparation and filing of the necessary FCC applications for the assignment(s) described in Section 2 of this Agreement.

**4. Loaned Reconfiguration Equipment:** If needed in order to facilitate the Incumbent's transition to the Replacement Frequencies, Nextel will loan any equipment identified in Schedule D as "Loaned Reconfiguration Equipment" and will provide any equipment identified in Schedule D as "Nextel Replacement Equipment". The Loaned Reconfiguration Equipment and Nextel Replacement Equipment may be referred to collectively as the "Nextel Schedule D Equipment". Nextel will deliver any Nextel Schedule D Equipment in accordance with the terms on Schedule D. Incumbent will fax to Nextel a bill of lading associated with each shipment of Nextel Schedule D Equipment signed by an authorized representative of Incumbent acknowledging receipt of the Nextel Schedule D Equipment in good working order. Any Loaned Reconfiguration Equipment will be returned to Nextel by Incumbent within 30 days of completion of Incumbent's Reconfiguration and in no event later than the Reconciliation Date.

**5. Retuning Cooperation:** For purposes of this Section, the "Current Program Completion Date" shall mean June 26, 2008 or such other date as may be established by the FCC for the completion of the Reconfiguration. The Parties acknowledge that the number of frequencies and locations covered by this Agreement will require the Parties to cooperate closely in performing their respective reconfiguration activities. The Parties agree that: (i) as of the Effective Date, the Incumbent may begin the

reconfiguration of its subscriber units, in accordance with the appropriate sections of Schedule C and Schedule D; (ii) Incumbent may commence such other activities associated with the reconfiguration of its system as further detailed on Schedule C as of the Effective Date; and (iii) the Parties will agree on a schedule to make the FCC filings, clear the Replacement Frequencies and decommission the Incumbent Frequencies (the "Schedule"). Depending on the timing of the adoption of this Schedule, it may require the submission of a Change Notice in accordance with Section 8 and/or an Amendment to this Agreement, but in any event the Parties agree to adopt the Schedule no later than: (i) sixty (60) days from the Effective Date of this Agreement; or (ii) pursuant to a Schedule agreed upon at a TA scheduled "Implementation Planning Session" that includes the Incumbent's system, provided the Implementation Planning Session has been scheduled by the TA prior to the expiration of 60 days from the Effective Date of this Agreement; or (iii) such other date as the FCC may require. Notwithstanding the aforementioned, in the event the completion date in the Schedule for the reconfiguration of Incumbent's system extends beyond the Current Program Completion Date, the completion date in the Schedule will be subject to FCC approval.

**6. Representations and Warranties:** Each Party represents and warrants to the other as follows:

(a) it is duly organized, validly existing and in good standing under the laws of the state of its incorporation;

(b) this Agreement has been duly authorized and approved by all required organizational action of the Party;

(c) neither the execution and delivery of this Agreement nor the consummation of the transactions contemplated by this Agreement will conflict with, or result in any material violation or default under, any term of its articles of incorporation, by-laws or other organizational documents or any agreement, mortgage, indenture, license, permit, lease, encumbrance or other instrument, judgment, decree, order, law or regulation by which it is bound;

(d) it is the lawful and exclusive FCC licensee of its respective license(s) described in this Agreement, such licenses are valid and in good standing with the FCC, and it has the authority to request the FCC to assign, modify or cancel such licenses;

(e) there is no pending or threatened action or claim that would have the possible effect of enjoining or preventing the consummation of this Agreement or awarding a third party damages on account of this Agreement; and

(f) to the best of its knowledge, all information provided to the other Party concerning the transactions contemplated by this Agreement is true and complete.

All representations and warranties made in this Agreement shall survive the Closing Date (defined below) for two (2) years.

**7. Covenants:** From the Effective Date until the Closing Date (defined below), each Party will promptly notify the other Party of any pending or threatened action by the FCC or any other governmental entity or third party to suspend, revoke, terminate or challenge any license described in this Agreement or to investigate the construction, operation or loading of any system authorized under such licenses. From the Effective Date until the Closing Date, Incumbent will not enter into any agreement resulting in, or otherwise cause, the encumbrance of any license for the Incumbent Frequencies, and Nextel will not enter into any agreement resulting in, or otherwise cause, the encumbrance of any of the Replacement Frequencies.

**8. Changes:** The Parties acknowledge that as the Reconfiguration of Incumbent's facilities proceeds in accordance with the work contemplated by the Cost Estimate, the need for changes to the scope of such work may arise. The Parties agree that their review of any such needed changes must be performed expeditiously to keep the work on schedule and that they will provide sufficient staff to manage changes. However, should the City require additional staffing for this purpose, the cost of such personnel may be a Reconfiguration Cost, which would require Change Notice (defined below). Such staff shall not be employed until the change has been approved in accordance with this Section and the Parties have executed an amendment documenting the approved change in accordance with Section 26. If either Party believes that a change to the work contemplated by the Cost Estimate is required (including changes by Vendors and/or Motorola), such Party will promptly notify the other Party in writing. Such written notice (the "Change Notice") shall set forth (i) a description of the scope of the change to the work contemplated by the Cost Estimate believed to be necessary and (ii) an estimate of any increase or decrease in the Cost Estimate and in the time required to reconfigure Incumbent's existing facilities to operate on the Replacement Frequencies. A Party receiving a Change Notice shall perform its own analysis of the need for and scope of the change and its impact on the Cost Estimate and schedule and negotiate the change in good faith with the other Party, using commercially reasonable efforts to complete the negotiation within fourteen (14) business days. After the Parties have agreed upon a change to this Agreement, they shall prepare a proposed amendment to this Agreement pursuant to Section 26 and submit to the Transition Administrator a copy of the proposed amendment together with a written request for its approval. Such request shall be accompanied by reasonable documentation supporting the need for and scope of the change and any proposed increase or decrease in the Cost Estimate and in the time required to reconfigure Incumbent's existing facilities to operate on the Replacement Frequencies. No change to (x) the Cost Estimate, (y) the work contemplated by the Cost Estimate or (z) the time required to reconfigure Incumbent's existing facilities to operate on the Replacement Frequencies (including without limitation any obligation for Nextel to pay for costs associated with any of the foregoing changes) shall become effective until the Transition Administrator has approved the change in writing and both Parties have signed an amendment incorporating such approved change into this Agreement pursuant to Section 26.

**9. Closing:** The closing of the transactions contemplated by this Agreement will take place after (i) FCC approval of the assignment of the Incumbent Frequencies to Nextel and/or deletion of the Incumbent Frequencies from the Incumbent Licenses, (ii) FCC approval of the modification to add the Replacement Frequencies to the Incumbent Licenses or the creation of a new license for Incumbent that includes the Replacement Frequencies, (iii) notification by Incumbent to Nextel that the Incumbent Licenses are clear of all users pursuant to Section 5, (iv) delivery by Incumbent of all receipts, invoices and other documentation required to substantiate the Actual Cost and signing by Incumbent and delivery to Nextel of the Reconciliation Statement and other documents required to complete the Reconciliation similar to those identified on Exhibit B, (v) FCC approval of the modification and/or cancellation of the FCC licenses Nextel holds for the operation of 800 MHz frequencies that are co-channels of the Replacement Frequencies, to the extent required to meet the technical short-spacing requirements of Section 90.621(b) of the FCC's Rules, 47 C.F.R. § 90.621(b), as such rule may be amended from time to time by the FCC, (vi) the refund to Nextel or payment to Incumbent as described in Section 3(b)(ii), (if applicable); and (vii) the satisfaction of all other conditions specified in this Agreement (the "Closing Date").

**10. Closing Conditions:** Performance of each Party's Closing obligations is subject to satisfaction of the following conditions (except to the extent expressly waived in writing by the other Party):

(a) the continued truth and accuracy of the other Party's representations and warranties set forth in this Agreement;

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(b) all of the covenants of the other Party described in this Agreement are performed in all material respects; and

(c) execution and delivery by the other Party of Closing documents as well as any other Closing instruments and documents either Party or its counsel may reasonably request. Incumbent will execute and deliver to Nextel a closing certification required by the Transition Administrator ("Completion Certification").

(d) The Parties will cooperate in good faith and exercise their reasonable best efforts to finalize and execute these instruments and documents on or prior to the Closing Date in order to effect the Reconfiguration contemplated.

**11. Review Rights:** In order to enable the Transition Administrator to comply with its audit obligations under the Order, Incumbent agrees to maintain records and other audit-level supporting evidence related to the costs that Incumbent has expended in connection with the Reconfiguration contemplated by this Agreement and that Nextel has paid or will pay to Incumbent pursuant to this Agreement. Incumbent agrees to maintain such records and make them reasonably available to the Transition Administrator for review or reproduction until eighteen (18) months after the date of Incumbent's executed Completion Certification required by this Agreement or for a longer period if Incumbent, for its own purposes, retains such records for a longer period of time. As used in this provision, "records" includes books, documents, accounting procedures and practices and other data regardless of type and regardless of whether such items are in written form, in the form of computer data or in any other form.

**12. Excluded Assets; No Assumption of Liabilities:** Nothing in this Agreement should be construed as a transfer or assignment from either Party to the other Party of any assets (including FCC licenses) except as expressly set forth in this Agreement. Other than as expressly provided in this Agreement, neither Party is obligated to assign and transfer to the other any asset, tangible or intangible, nor is either Party entitled to assume any asset, tangible or intangible. Neither Party is assuming, nor is either Party responsible for, any liabilities or obligations of the other Party arising out of or in connection with the other Party's licenses (or related systems and facilities) that are the subject of this Agreement.

**13. Confidentiality:** The terms of this Agreement, any confidential information disclosed in connection with this Agreement (whether before or after the Effective Date, including during any negotiations or any mediation related to such negotiations or the Agreement), and any proprietary, non-public information regarding the Incumbent Frequencies, Replacement Frequencies, Nextel's business and Incumbent's business must be kept confidential by the Parties and their employees, shareholders, agents, attorneys and accountants (collectively, "Agents"), which confidentiality will survive the Closing or termination of this Agreement for a period of two (2) years. The Parties may make disclosures: (i) as required by law including but not limited to Ch. 119 FL.Stat., (ii) to the Transition Administrator, (iii) to a manufacturer of Nextel Replacement Equipment to allow for the provisioning of that equipment to Incumbent (but only to the extent such disclosure specifically relates to that manufacturer's equipment as identified on Schedule D), and (iv) to a Vendor and/or Motorola (but only to the extent such disclosure specifically relates to that Vendor's work and costs under this Agreement (as identified on Schedule C) or Motorola's work and costs under this Agreement (as identified on Schedule C and/or Schedule D) as required to perform obligations under this Agreement, provided, however, that each Party will cause all of its Agents to honor the provisions of this Section. Nextel, Incumbent and their respective Agents may make disclosures regarding the terms of this Agreement to other public safety licensees and their Agents. Each party involved in such disclosures shall cause all of its Agents to confine the disclosure of the terms of this Agreement to only public safety licensees and will advise the party to whom the disclosure was

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made, to limit further disclosure to only public safety licensees in accordance with the FCC Order, WT Docket No. 02-55, adopted January 8, 2007.

**14. Cooperation:** The Parties will cooperate with each other and the Transition Administrator with respect to the Reconfiguration work contemplated by this Agreement. Without limiting the foregoing obligations, the Parties agree to cooperate in the preparation of any applications required to be filed with the FCC, and Incumbent agrees to provide reasonable access to its facilities so that the Transition Administrator may comply with any audit obligations and so any Reconfiguration work contemplated by this Agreement may be performed in accordance with the Cost Estimate and performance schedule. If a Party is subject to a denial of FCC benefits for delinquent non-tax debts owed to the FCC that would prevent or delay the timely processing of any FCC applications, such Party shall cure such delinquency in an expeditious manner and at its sole expense.

**15. Indemnification:** From and after the Closing Date, each Party (the "Indemnifying Party") will indemnify and defend the other Party, its officers, directors, employees and agents (collectively, the "Indemnified Party"), from and against all demands, claims, actions, losses, damages, liabilities, costs and expenses, including, without limitation, reasonable attorneys' fees and expenses (collectively, "Costs"), asserted against, imposed upon or incurred by the Indemnified Party arising from or related to: (i) any breach of any covenant, agreement, representation or warranty of the Indemnifying Party contained in, or made pursuant to, this Agreement; or (ii) any and all liabilities (including successor liabilities) or obligations relating to periods prior to the Closing Date resulting from the Indemnifying Party's operation of the system operated pursuant to the Incumbent Licenses or the Nextel Licenses, as applicable, or the ownership or use of those licenses or from the Indemnifying Party's employment, or termination of employment, of its employees. The obligations under this Section survive the Closing for a period of three (3) years.

**16. Disputes:** The Parties agree that any dispute related to the Replacement Frequencies, Nextel's obligation to pay any cost of the Reconfiguration of Incumbent's system contemplated by this Agreement, or the comparability of Incumbent's reconfigured system to Incumbent's existing system prior to Reconfiguration, which is not resolved by mutual agreement, shall be resolved in accordance with the dispute resolution provisions of the Order, as it may be amended from time to time. Any dispute that (i) arises out of or is related to this Agreement and (ii) is within the jurisdiction of neither the Transition Administrator nor the FCC may be heard by a court of competent jurisdiction in Palm Beach County, Florida.

**17. No Gratuities:** No gift, gratuity, credit, thing of value or compensation of any kind shall be offered or provided by Incumbent, directly or indirectly, to any officer, employee or official of Nextel for the purpose of improperly obtaining or rewarding favorable treatment under this Agreement.

**18. Liens:** If any liens or security interests attach to any of Incumbent's facilities in favor of any vendor or service provider that is performing any Reconfiguration work contemplated by this Agreement as a result of Nextel's breach of any obligation to make direct payment (not in dispute) to such vendor or services provider, Nextel upon receipt of Notice from Incumbent will cooperate to remove any Liens.

**19. Vendor Performance Issues:** Incumbent will select and contract directly with Motorola and any vendor or service provider performing work required to reconfigure the Incumbent's existing facilities to operate on the Replacement Frequencies. Neither the Transition Administrator nor Nextel will be responsible for, or assume the risk of any failure of that Vendor or Motorola to perform its obligations under any contract entered into between Incumbent and such Vendor or Motorola in connection with the Reconfiguration contemplated by this Agreement.

**20. Motorola Replaced Equipment:**

(a) If the reconfiguration of the Incumbent's existing facilities to operate on the Replacement Frequencies involves the replacement of any of Incumbent's existing equipment with Motorola Schedule D Equipment (as identified on Schedule D), Incumbent will promptly return the equipment replaced by the Motorola Schedule D Equipment as identified on Schedule D (the "Motorola Replaced Equipment") to Motorola (shipping fees to be paid by Nextel).

(b) If Incumbent has ordered field implementation services for new subscriber radios ("Motorola Subscriber Services") and Incumbent fails to return any item of the Motorola Replaced Equipment to Motorola, Incumbent must either: (i) return to Motorola those items of the Motorola Schedule D Equipment that would have replaced the Motorola Replaced Equipment not returned, in the same condition as received; or (ii) in accordance with Incumbent's mutual agreement with Motorola, Incumbent will make payment to Motorola for those items of the Motorola Schedule D Equipment that would have replaced those items of the Motorola Replaced Equipment not returned (including tax (if any) and shipping).

(c) If Incumbent did not order Motorola Subscriber Services and Incumbent fails to return any item of the Motorola Replaced Equipment to Motorola within 30 days of receipt of the Motorola Schedule D Equipment, Incumbent must promptly return to Motorola those items of the Motorola Schedule D Equipment that would have replaced the Motorola Replaced Equipment not returned, in the same condition as received. If Incumbent fails to return any item of the Motorola Replaced Equipment to Motorola under this Section 20(c) and prior to receipt of a Reconciliation Statement from Nextel Incumbent does not demonstrate to Nextel that Incumbent has made payment of the Product Typical Value (as identified on Schedule E(1)) directly to Motorola for those items of Motorola Schedule D Equipment that would have replaced the Motorola Replaced Equipment not returned, then either: (i) Nextel will deduct the Product Typical Value for those items of Motorola Schedule D Equipment provided to replace the Motorola Replaced Equipment not returned to Motorola (including tax (if any) and shipping) (the "Motorola Equipment Refund") from the final payment due to Incumbent after the Reconciliation; (ii) Incumbent must pay the Motorola Equipment Refund to Nextel prior to the Closing Date (if no final payment is due to Incumbent); or (iii) Nextel will deduct the portion of the Motorola Equipment Refund up to the value of the final payment due to Incumbent and Incumbent must pay Nextel the remaining Motorola Equipment Refund not covered by the final payment prior to the Closing Date (if the final payment due Incumbent is less than the Motorola Equipment Refund).

**21. Nextel Replaced Equipment:**

(a) If the reconfiguration of the Incumbent's existing facilities to operate on the Replacement Frequencies involves the replacement of any of Incumbent's existing equipment with equipment provided by Nextel (as identified on Schedule D) or equipment the cost of which is being paid by Nextel pursuant to this Agreement as listed in Schedule C (collectively the "Nextel Replacement Equipment"), then (i) title to the equipment replaced by the Nextel Replacement Equipment (the "Nextel Replaced Equipment") as listed in Schedule D shall pass to Nextel at Closing free and clear of liens and any other encumbrances, and (ii) Incumbent shall execute such documentation as Nextel may reasonably request to transfer title to Nextel and shall within thirty (30) days deliver the Nextel Replaced Equipment to Nextel at Nextel's costs and pursuant to Nextel's instructions. Title to Nextel Replacement Equipment provided by Nextel will pass to Incumbent at Closing, and, for Nextel Replacement Equipment owned by Nextel, Nextel shall execute such documentation as Incumbent may reasonably request to transfer title to Incumbent free and clear of liens.

(b) If Incumbent fails to return any item of the Nextel Replaced Equipment to Nextel, Incumbent must return to Nextel those items of the Nextel Replacement Equipment that would have replaced the Nextel Replaced Equipment not returned, in the same condition as received, within thirty (30) days of receipt of the Nextel Replacement Equipment. If Incumbent fails to return any item of the Nextel Replaced Equipment to Nextel under this Section 21(b) and a Product Typical Value is set forth in Schedule E(2) for the item of Nextel Replacement Equipment then either: (i) Nextel will deduct the Product Typical Value (as set forth in Schedule E(2)) for those items of Nextel Replacement Equipment provided to replace the Nextel Replaced Equipment not returned to Nextel (including tax (if any) and shipping) (the "Nextel Equipment Refund") from the final payment due to Incumbent after the Reconciliation less any Motorola Equipment Refund; (ii) Incumbent must pay Nextel the Nextel Equipment Refund prior to the Closing Date (if no final payment is due to Incumbent and in addition to any Motorola Equipment Refund payment); or (iii) Nextel will deduct the portion of the Nextel Equipment Refund up to the value of the final payment due to Incumbent less any Motorola Equipment Refund, and Incumbent must pay Nextel the remaining Nextel Equipment Refund and any Motorola Equipment Refund not covered by the final payment prior to the Closing Date (If the final payment due Incumbent is less than the Nextel Equipment Refund and any Motorola Equipment Refund).

**22. Termination:** This Agreement may be terminated and the transactions contemplated by this Agreement abandoned: (i) by mutual consent of the Parties provided in writing; (ii) for cause by either Party upon material breach of the other Party, following a thirty (30) day period for cure by the breaching Party following written notice of the breach or (iii) by Nextel in the event of any Adverse Decision by any governmental entity of competent jurisdiction affecting the Order. For purposes of this Agreement, an "Adverse Decision" means an order, decree, opinion, report or any other form of decision by a governmental entity of competent jurisdiction that results, in whole or part, in a stay, remand, or reversal of the Order, or otherwise in any revision to the Order that Nextel reasonably determines in its sole discretion, to be adverse to its interests. In the event of termination, the Parties shall take all necessary action (including preparing and filing FCC documents) to return the *status quo ante* on the date of this Agreement. In the event of termination, Nextel shall pay all costs associated with the return to the *status quo ante* except if such termination was due to an uncured material breach by Incumbent.

**23. Attorney's Fees:** In any legal proceeding by a Party to enforce its rights under this Agreement against the other Party, the Party prevailing in such proceeding will be entitled to recover its reasonable attorney's fees and costs from the other Party.

**24. Notices:** All notices and other communications under this Agreement must be in writing and will be deemed given (i) the same day if delivered personally or sent by facsimile; (ii) the next business day if sent by overnight delivery via a reliable express delivery service; or (iii) after five (5) business days if sent by certified mail, return receipt requested, postage prepaid. All notices are to be delivered to the Parties at the following addresses:

<b>If to Incumbent, to:</b>  City of Hialeah Telecommunications Division 83 East 5th Street – Room 239 Hialeah, FL 33010 Attn: Antonio E. Arce Phone: (305) 883-5821 Fax: (305) 520-4600 Email: <a href="mailto:AArce@hialeahfl.gov">AArce@hialeahfl.gov</a>	<b>If to Nextel, to:</b>  Nextel South Corp. c/o Nextel Communications, Inc. 2001 Edmund Halley Drive Reston, VA 20191-3436 Attn: Heather P. Brown, Esq. Phone: (703) 433-4467 Fax: (703) 433-4483
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With a copy that shall not constitute Notice to:	With a copy that shall not constitute Notice:
Ila L. Feld, Esq. LEIBOWITZ & ASSOCIATES, P.A. One Southeast Third Avenue Suite 1450 Miami, FL 33131 Phone: (305) 530-1322 Fax: (305) 530-9417 Email: <a href="mailto:IFeld@broadlaw.com">IFeld@broadlaw.com</a>	Nextel Communications, Inc. 6575 The Corners Parkway Norcross, GA 30092 Attn: William Jenkins, VP Spectrum Resources Phone: (770) 326-7484 Fax: (678) 405-8252

**25. Assignment:** This Agreement is binding upon and inures to the benefit of the Parties and their respective successors and permitted assigns. Either Party may assign this Agreement to any direct or indirect subsidiary or affiliate of the Party, upon delivery of written notice to the other Party.

**26. Amendments:** This Agreement, including without limitation the scope of work contemplated hereby and the Estimated Cost thereof to be paid by Nextel, may be amended or modified only by a written instrument signed by authorized representatives of both Parties, provided, however, no amendment or modification to this Agreement shall become effective until approved by the Transition Administrator.

**27. Benefits:** This Agreement is for the benefit of the Parties and their successors and permitted assigns, and nothing in this Agreement gives or should be construed to give any legal or equitable rights under this Agreement to any person or entity, other than (i) the successors and assigns of the Parties, and (ii) the Transition Administrator as specifically provided for in this Agreement.

**28. Miscellaneous:** If any provision(s) of this Agreement is held in whole or part, to be invalid, void or unlawful by any administrative agency or court of competent jurisdiction, then such provision(s) will be deemed severable from the remainder of this Agreement, will in no way affect, impair or invalidate any other provision contained in the Agreement and the Parties will use their commercially reasonable efforts to amend this Agreement to make the unlawful provision compliant with applicable law so as to preserve the rights and obligations of the Parties. No action taken pursuant to this Agreement should be deemed to constitute a waiver of compliance with any representation, warranty, covenant or agreement contained in this Agreement and will not operate or be construed as a waiver of any subsequent breach, whether of a similar or dissimilar nature. This Agreement, together with the Schedules, constitutes the entire understanding and agreement between the Parties concerning the subject matter of this Agreement, and supersedes all prior oral or written agreements or understandings. This Agreement is governed by the laws of the State of Florida without regard to conflicts of law principles thereof. This Agreement may be executed in one or more counterparts, including by facsimile, which will be effective as original agreements of the Parties executing the counterpart.

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In consideration of the mutual consideration set forth herein, this Agreement is effective as a legally binding agreement between the Parties upon execution by the Parties.

INCUMBENT:

NEXTEL:

**City of Hialeah, Florida**

**Nextel South Corp.**

By: \_\_\_\_\_

By: \_\_\_\_\_

Name: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

**SCHEDULE A****Incumbent Frequencies****Incumbent's Name:** City of Hialeah, FL**Incumbent Assigns to Nextel:**

<b>CALL SIGN</b>	<b>Frequencies</b>	<b>Licensee</b>	<b>Location #</b>	<b>of Frequencies</b>	<b>Issue Expiration Date</b>	<b>Latitude (N)</b>	<b>Longitude (W)</b>
WPCT375	866.1625	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-49'-36.4'	80°-16'-49.2'
WPCT375	866.1625	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-20.3'	80°-15'-57.2'
WPCT375	866.1625	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-29.3'	80°-19'-45.2'
WPCT375	866.2500	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-29.3'	80°-19'-45.2'
WPCT375	866.2500	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-49'-36.4'	80°-16'-49.2'
WPCT375	866.2500	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-20.3'	80°-15'-57.2'
WPCT375	866.7875	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-49'-36.4'	80°-16'-49.2'
WPCT375	866.7875	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-29.3'	80°-19'-45.2'
WPCT375	866.7875	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-20.3'	80°-15'-57.2'
WPCT375	867.1625	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-49'-36.4'	80°-16'-49.2'
WPCT375	867.1625	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-20.3'	80°-15'-57.2'
WPCT375	867.1625	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-29.3'	80°-19'-45.2'
WPCT375	867.2000	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-20.3'	80°-15'-57.2'
WPCT375	867.2000	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-49'-36.4'	80°-16'-49.2'
WPCT375	867.2000	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-29.3'	80°-19'-45.2'
WPCT375	867.5875	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-49'-36.4'	80°-16'-49.2'
WPCT375	867.5875	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-29.3'	80°-19'-45.2'
WPCT375	867.5875	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-20.3'	80°-15'-57.2'
WPCT375	867.8500	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-49'-36.4'	80°-16'-49.2'
WPCT375	867.8500	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-29.3'	80°-19'-45.2'
WPCT375	867.8500	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-20.3'	80°-15'-57.2'
WPCT375	868.3000	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-29.3'	80°-19'-45.2'
WPCT375	868.3000	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-49'-36.4'	80°-16'-49.2'
WPCT375	868.3000	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-20.3'	80°-15'-57.2'
WPCT375	868.3250	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-20.3'	80°-15'-57.2'
WPCT375	868.3250	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-29.3'	80°-19'-45.2'

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<u>CALLSIGN</u> <u>GN</u> <u>Call</u> <u>Sign</u>	<u>Frequencies</u> <u>Frequency</u>	<u>Licensee</u>	<u>Location</u>	<u># of</u> <u>Frequencies</u>	<u>Issue</u> <u>Expiration</u> <u>Date</u>	<u>Latitude</u> <u>(N)</u>	<u>Longitude</u> <u>(W)</u>
WPCT375	868.3250	Hialeah City of	Hialeah, FL	1	8/5/2014	25°-49'-36.4'	80°-16'-49.2'
WPCT375	868.8250	Hialeah City of	Hialeah, FL	1	8/5/2014	25°-49'-36.4'	80°-16'-49.2'
WPCT375	868.8250	Hialeah City of	Hialeah, FL	1	8/5/2014	25°-52'-29.3'	80°-19'-45.2'
WPCT375	868.8250	Hialeah City of	Hialeah, FL	1	8/5/2014	25°-52'-20.3'	80°-15'-57.2'
WPNW940	821.0125	Hialeah City of	FL	1	7/21/2014		
WPNW940	821.5125	Hialeah City of	FL	1	7/21/2014		
WPNW940	822.0125	Hialeah City of	FL	1	7/21/2014		
WPNW940	822.5125	Hialeah City of	FL	1	7/21/2014		
WPNW940	823.0125	Hialeah City of	FL	1	7/21/2014		

Also has callsign WPNW940 a receive side mutual aid license. Freqs are 821.0125, 821.5125, 822.0125, 822.5125, 823.0125 no coordinates.

**SCHEDULE B****Replacement Frequencies****Incumbent's Name:** City of Hialeah, FL**Nextel Assigns to Incumbent:**

<b>Replacement Frequencies</b>	<b>Latitude (N)</b>	<b>Longitude (W)</b>	<b>ERP (W)</b>	<b>Gnd Elev GE (ft.)</b>	<b>Ant. Height AH (ft.)</b>	<b>New License eCall Sign?</b>	<b>Location</b>	<b>Call Sign</b>
806.0125			33			N	FL	WPNW940
806.5125			33			N	FL	WPNW940
807.0125			33			N	FL	WPNW940
807.5125			33			N	FL	WPNW940
808.0125			33			N	FL	WPNW940
851.1625	25°-49'-36.4'	80°-16'-49.2'	108	10	194	N	Hialeah, FL	WPCT375
851.1625	25°-52'-20.3'	80°-15'-57.2'	147	10	184	N	Hialeah, FL	WPCT375
851.1625	25°-52'-29.3'	80°-19'-45.2'	159	7	184	N	Hialeah, FL	WPCT375
851.2500	25°-49'-36.4'	80°-16'-49.2'	108	10	194	N	Hialeah, FL	WPCT375
851.2500	25°-52'-20.3'	80°-15'-57.2'	147	10	184	N	Hialeah, FL	WPCT375
851.2500	25°-52'-29.3'	80°-19'-45.2'	159	7	184	N	Hialeah, FL	WPCT375
851.7875	25°-49'-36.4'	80°-16'-49.2'	108	10	194	N	Hialeah, FL	WPCT375
851.7875	25°-52'-20.3'	80°-15'-57.2'	147	10	184	N	Hialeah, FL	WPCT375
851.7875	25°-52'-29.3'	80°-19'-45.2'	159	7	184	N	Hialeah, FL	WPCT375
852.1625	25°-49'-36.4'	80°-16'-49.2'	108	10	194	N	Hialeah, FL	WPCT375
852.1625	25°-52'-20.3'	80°-15'-57.2'	147	10	184	N	Hialeah, FL	WPCT375
852.1625	25°-52'-29.3'	80°-19'-45.2'	159	7	184	N	Hialeah, FL	WPCT375
852.2000	25°-49'-36.4'	80°-16'-49.2'	108	10	194	N	Hialeah, FL	WPCT375
852.2000	25°-52'-20.3'	80°-15'-57.2'	147	10	184	N	Hialeah, FL	WPCT375
852.2000	25°-52'-29.3'	80°-19'-45.2'	159	7	184	N	Hialeah, FL	WPCT375
852.5875	25°-49'-36.4'	80°-16'-49.2'	108	10	194	N	Hialeah, FL	WPCT375
852.5875	25°-52'-20.3'	80°-15'-57.2'	147	10	184	N	Hialeah, FL	WPCT375
852.5875	25°-52'-29.3'	80°-19'-45.2'	159	7	184	N	Hialeah, FL	WPCT375
852.8500	25°-49'-36.4'	80°-16'-49.2'	108	10	194	N	Hialeah, FL	WPCT375
852.8500	25°-52'-20.3'	80°-15'-57.2'	147	10	184	N	Hialeah, FL	WPCT375
852.8500	25°-52'-29.3'	80°-19'-45.2'	159	7	184	N	Hialeah, FL	WPCT375
853.3000	25°-49'-36.4'	80°-16'-49.2'	108	10	194	N	Hialeah, FL	WPCT375
853.3000	25°-52'-20.3'	80°-15'-57.2'	147	10	184	N	Hialeah, FL	WPCT375
853.3000	25°-52'-29.3'	80°-19'-45.2'	159	7	184	N	Hialeah, FL	WPCT375
853.3250	25°-49'-36.4'	80°-16'-49.2'	108	10	194	N	Hialeah, FL	WPCT375

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<u>Replacement Frequency</u>	<u>Latitude (N)</u>	<u>Longitude (W)</u>	<u>ERP (W)</u>	<u>Grd Elev GE (ft.)</u>	<u>Ant. Height tAH (ft.)</u>	<u>New License eCall Sign?</u>	<u>Location</u>	<u>Call Sign</u>
<u>853.3250</u>	<u>25°-52'-20.3'</u>	<u>80°-15'-57.2'</u>	<u>147</u>	<u>10</u>	<u>184</u>	<u>N</u>	<u>Hialeah, FL</u>	<u>WPCT375</u>
<u>853.3250</u>	<u>25°-52'-29.3'</u>	<u>80°-19'-45.2'</u>	<u>159</u>	<u>7</u>	<u>184</u>	<u>N</u>	<u>Hialeah, FL</u>	<u>WPCT375</u>
<u>853.8250</u>	<u>25°-49'-36.4'</u>	<u>80°-16'-49.2'</u>	<u>108</u>	<u>10</u>	<u>194</u>	<u>N</u>	<u>Hialeah, FL</u>	<u>WPCT375</u>
<u>853.8250</u>	<u>25°-52'-20.3'</u>	<u>80°-15'-57.2'</u>	<u>147</u>	<u>10</u>	<u>184</u>	<u>N</u>	<u>Hialeah, FL</u>	<u>WPCT375</u>
<u>853.8250</u>	<u>25°-52'-29.3'</u>	<u>80°-19'-45.2'</u>	<u>159</u>	<u>7</u>	<u>184</u>	<u>N</u>	<u>Hialeah, FL</u>	<u>WPCT375</u>

Also has callsign ~~WPNW940~~ a receive side mutual aid license. Freqs are 821.0125, 821.5125, 822.0125, 822.5125, 823.0125 no coordinates.

SCHEDULE C

**800 MHZ RECONFIGURATION**

**COST ESTIMATE – CERTIFIED REQUEST**

**Incumbent's Name:** City of Hialeah, FL

**Request for Reconfiguration Funding**

Pursuant to the Order, Incumbent is required to reconfigure its existing facilities and requests Nextel to fund the estimated reconfiguration costs included below:

**Incumbent Payment Terms:** Nextel will pay Incumbent an amount not to exceed the Estimated Cost(s) for Incumbent with respect to each category of work, as set forth below. Nextel will pay Incumbent ~~\$[DOLLAR AMOUNT TO BE FILLED IN BY DEAL MANAGER]~~ 36,265.13 within 15 days (30 days if Incumbent elects to be paid by check rather than electronic funds transfer) after receipt by Nextel of the fully executed Agreement and fully completed Incumbent Information Form (as set forth on Exhibit A). Nextel will pay any outstanding balance of the Actual Costs due to Incumbent within 30 days after the Reconciliation Date (as "Actual Costs" and "Reconciliation Date" are defined in Section 3(b)(i)).

**Vendor Payment Terms:** Nextel will pay each Vendor (including, but not limited to Motorola) an amount not to exceed the Estimated Cost(s) for that Vendor with respect to each category of work, as set forth below. Nextel will pay each Vendor within 30 days after receipt by Nextel of (A) an invoice from the Vendor and (B) Incumbent's approval of receipt of goods and services and approval of associated costs included on the Vendor invoice.

~~1. **System Description:** Describe the facilities to be reconfigured in this section in accordance with the TA Guidelines for Preparing a Cost Estimate.~~

~~— Provide system description —~~

1. **System Description:** The City of Hialeah operates a three-site, ten-channel, SmartNet II Plus analog only Simulcast system. The system's prime site and a collocated remote site are located at the Hialeah Fire Station 1. The other two remote sites are located at the Hialeah Police Dispatch site and the Bucky Dent site. Each transmit site utilizes two transmit antennas, two combiners, one receive antenna, and one tower-top amplifier / receive multi-coupler.

In addition to the simulcast system, the City of Hialeah operates two portable Quantar repeaters for emergency backup. The two backup transmitters use two antennas mounted on the tower and two duplexers. Additionally they have two back-up antennas stored on the ground used for mobile deployment if necessary. The repeaters and antennas are stored at the Bucky Dent site.

The network management system consists of four stand-alone SIP terminals located at the Hialeah Water and sewer, Telecommunications, Fleet, and Solid Waste departments. The city of Hialeah also operate a SIMS II system with one server, one local user terminal at the Hialeah Fire Dispatch, one remote user terminal at the Hialeah Police Dispatch and one dial in modem. The City of Hialeah operates a CENTRACOM II Gold Elite Console System and has two dispatch centers located at the Hialeah Fire Dispatch and Hialeah Police Dispatch. The dispatch centers have six operator positions each. The

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dispatch consoles are not affected by rebanding. There are 1027 portable radios, 573 mobile radios and 88 MOSCAD radios affiliated with the system.

The City of Hialeah also operates two Bi-Directional Amplifiers located at Hialeah Hospital and Palmetto General Hospital.

The major system elements to be reconfigured are summarized in the table below:

	Total In System	Total Included in FRA
Base station frequencies	10	10
- Voice channels	12	12
- Home/Control channels	6	6
Repeater sites	3	3
Other sites (remote recv, BDA)	2	2
Subscriber units retuned	212	212
Subscriber units reprogrammed	1152	1152
Subscriber units replaced	345	345
Entities operating on the systemSubscriber units rebanded total	1709	1709

<u>2. Reconfiguration Milestones: Identify the anticipated start date of the overall reconfiguration of your system (Project Start). Then, for each major reconfiguration milestone listed in the table below, provide the estimated duration in number of days required to complete the task identified.</u>	<u>Start Date</u>	<u># of Days After Project Start Date for Start of Task</u>	<u>Estimated Duration in # of Days</u>
<b>Reconfiguration Task</b>			
Project Start	TBD		
Reconfiguration Planning		TBD	7 days
Reconfigure Subscriber Equipment		TBD	69 days
Reconfigure Infrastructure Equipment		TBD	46 days
System Acceptance		TBD	10 days

<u>3. Cost Estimate: Description of Work To Be Performed</u>	<u>Payee(separately identify Incumbent and each Vendor being paid for work performed)</u>	<u>Estimated Cost(s) for Incumbent and Each Vendor (Not to Exceed listed amount)</u>
<u>I. Subscriber Equipment Reconfiguration</u>	(Vendor) Motorola	\$335,504.00
<ul style="list-style-type: none"><li>• <u>Replacement of Dash Mount Radios - De-install &amp; Install for standard sedan or light/medium truck with unit installed under the dash and no obstructions or special installation requirements. (29 units @ 2.30 hrs each @ \$118.00 /hr = \$7,870.60)</u></li><li>• <u>Replacement of Remote Mount Radios - De-install &amp; install into Fire Truck (13 units @ 4.70 hrs each @ \$118.00 /hr = \$7,209.80)</u></li><li>• <u>Replacement of Remote Mount Radios - De-install &amp; Install into special vehicle</u></li></ul>		

<p>(Motorcycle) (27 units @ 4.70 hrs each @ \$118.00 /hr = \$14,974.20)</p> <ul style="list-style-type: none"> <li>• <u>Replacement of Remote Mount Radios - Add time for special Install conditions in cell to right: (Extra Travel, Time due to custom install, Install of new antenna cable and mount, and etc.) (46 units @ 4.70 hrs each @ \$118.00 /hr = \$25,511.60)</u></li> <li>• <u>Replacement of Remote Mount Radios - Installation of dual control head (13 units @ 2.80 hrs each @ \$118.00 /hr = \$4,295.20)</u></li> <li>• <u>Retune Existing Mobile Radios - • Functional Pre-Test of existing radio - Talk group call on system • Retune existing radio (no obstruction to retuning of radio) • Functional post test of existing radio - Talk group call on system (105 units @ 0.70 hrs each @ \$118.00 /hr = \$8,673.00)</u></li> <li>• <u>Retune Existing Mobile Radios - Removal and re-install of existing mobile radio if radio cannot be programmed in the vehicle due to obstruction to programming port. (3 units @ 0.90 hrs each @ \$118.00 /hr = \$318.60)</u></li> <li>• <u>Retune Existing Mobile Radios - • Functional Pre-Test of existing radio - Talk group call on system • Flash existing radio with Rebanding software • Load programming template into existing radio (no obstruction to programming port of radio and radio is to be flashed and programmed in the vehicle) (11 units @ 0.80 hrs each @ \$118.00 /hr = \$1,038.40)</u></li> <li>• <u>Retune Existing Mobile Radios - Removal and re-install of existing mobile radio if radio cannot be programmed in the vehicle due to obstruction to programming port. (341 units @ 1.00 hrs each @ \$118.00 /hr = \$40,238.00)</u></li> <li>• <u>Portable Radios - Retune Existing Portable (104 units @ 0.50 hrs each @ \$118.00 /hr = \$6,136.00)</u></li> <li>• <u>Portable Radios - Flashing and Retuning of Existing Portable Radio (800 units @ 0.60 hrs each @ \$118.00 /hr = \$56,640.00)</u></li> <li>• <u>Portable Radios - Replacement of Existing Portable Radio (215 units @ 0.50 hrs each @ \$118.00 /hr = \$25,685.00)</u></li> <li>• <u>2nd Touch - Second programming of subscribers (remove old freqs.) Mobiles (306 units @ 0.70 hrs each @ \$118.00 /hr = \$25,275.60)</u></li> <li>• <u>2nd Touch - Second programming of subscribers</u></li> </ul>		
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<ul style="list-style-type: none"><li>▪ (remove old freqs.) Portables (758 units @ 0.50 hrs each @ \$118.00 /hr = \$44,722.00)</li><li>▪ MSS - MCS3000 Installation material (CAT5) (1 @ \$1,516.00 /unit = \$1,516.00)</li><li>▪ PM - Project Manager on Site Supervision &amp; Coordination (384hrs @ \$175.00 /hr = \$67,200.00)</li><li>▪ ST - ST Templates &amp; procedures supervision and approvals (48hrs @ \$175.00 /hr = \$8,400.00)</li><li>▪ SE - SE Subscribers Support (16hrs @ \$175.00 /hr = \$2,800.00)</li></ul>		
<ul style="list-style-type: none"><li>▪ Project management for subscriber equipment reconfiguration (456hrs @ \$64.50 /hr = \$29,412.00)</li><li>▪ Radio Template writing &amp; testing of 110 templates for the first round of programming (330hrs @ \$64.50 /hr = \$21,285.00)</li><li>▪ Radio Template writing &amp; testing of 110 templates to remove old frequencies for the second round of programming (110 units @ 1.00 hrs each @ \$64.50 /hr = \$7,095.00)</li><li>▪ Planning Costs - Subscriber Inventory (172.5hrs @ \$64.50 /hr = \$11,126.25)</li></ul>	(Incumbent) City of Hialeah	\$68,918.25
<ul style="list-style-type: none"><li>▪ Replacement of Dash Mount Radios - De-install &amp; Install - Install is in a transit vehicle (bus) with external emergency footswitch. Footswitch circuitry must be converted to new accessory connector and tested. (58.5hrs @ \$115.00 /hr = \$6,727.50)</li><li>▪ Portable Radios - Replacement of Existing Portable Radios - Load programming template into new radio - Functional post test of new radio - Talk group call on system - Unpackage Radios (1.2hrs @ \$115.00 /hr = \$138.00)</li><li>▪ Portable Radios - Remove Pre-Rebanding Frequencies from New Radios (6hrs @ \$115.00 /hr = \$690.00)</li><li>▪ Portable Radios - Blank Out Recovered Radios prior to Shipment to SN (3hrs @ \$115.00 /hr = \$345.00)</li><li>▪ Radio Templates (Masks) - Modify Radio (8hrs @ \$150.00 /hr = \$1,200.00)</li><li>▪ Other Tasks - Project Management - manage the deployment of subscriber units for all tasks listed above. (1.5hrs @ \$160.00 /hr = \$240.00)</li></ul>	(Vendor) EFJ	\$12,145.50
<ul style="list-style-type: none"><li>▪ Training - EFJ to Train City Staff on Radio Operation (8hrs @ \$130.00 /hr = \$1,040.00)</li><li>▪ Travel Expenses - EFJ Field Engineer, 3 days trip for training and templates. These costs will be billed at actual. (1 @ \$1,765.00 /unit = \$1,765.00)</li></ul>		
II. Infrastructure Equipment Reconfiguration a. Infrastructure Equipment Reconfiguration Services	(Vendor) Motorola	\$83,868.00

<ul style="list-style-type: none"> <li>▪ <u>Controllers (2 units @ 6.00 hrs each @ \$175.00 /hr = \$2,100.00)</u></li> <li>▪ <u>Repeaters (10 units @ 1.00 hrs each @ \$175.00 /hr = \$1,750.00)</u></li> <li>▪ <u>Combiners &amp; Duplexer (Antenna System) (2 units @ 2.00 hrs each @ \$175.00 /hr = \$700.00)</u></li> <li>▪ <u>Repeaters (12 units @ 1.00 hrs each @ \$175.00 /hr = \$2,100.00)</u></li> <li>▪ <u>Combiners &amp; Duplexer (Antenna System) (2 units @ 2.00 hrs each @ \$175.00 /hr = \$700.00)</u></li> <li>▪ <u>Retune Duplexers (2 units @ 1.00 hrs each @ \$175.00 /hr = \$350.00)</u></li> <li>▪ <u>Repeaters (10 units @ 1.00 hrs each @ \$175.00 /hr = \$1,750.00)</u></li> <li>▪ <u>Combiners &amp; Duplexer (Antenna System) (2 units @ 2.00 hrs each @ \$175.00 /hr = \$700.00)</u></li> <li>▪ <u>GenWatch local terminal (FD) (1 units @ 8.00 hrs each @ \$175.00 /hr = \$1,400.00)</u></li> <li>▪ <u>GenWatch Host Computer GW3HC with new rf modems (1 units @ 24.00 hrs each @ \$175.00 /hr = \$4,200.00)</u></li> <li>▪ <u>GenWatch GW3HC CAD link and connection (1 units @ 4.00 hrs each @ \$175.00 /hr = \$700.00)</u></li> <li>▪ <u>GenWatch Host database programming (1 units @ 24.00 hrs each @ \$175.00 /hr = \$4,200.00)</u></li> <li>▪ <u>GenWatch remotel terminal (2 units @ 8.00 hrs each @ \$175.00 /hr = \$2,800.00)</u></li> <li>▪ <u>Install Network equipment for GenWatch remote terminal (1 units @ 32.00 hrs each @ \$175.00 /hr = \$5,600.00)</u></li> <li>▪ <u>GenWatch GW3LE stand alone system (1 units @ 8.00 hrs each @ \$175.00 /hr = \$1,400.00)</u></li> <li>▪ <u>GenWatch GW3LE stand alone system (1 units @ 8.00 hrs each @ \$175.00 /hr = \$1,400.00)</u></li> </ul>		
<ul style="list-style-type: none"> <li>▪ <u>GenWatch GW3LE stand alone system (1 units @ 8.00 hrs each @ \$175.00 /hr = \$1,400.00)</u></li> <li>▪ <u>GenWatch GW3LE stand alone system (1 units @ 8.00 hrs each @ \$175.00 /hr = \$1,400.00)</u></li> <li>▪ <u>Replace Palmeto General Hospital BDA filters with 18MHZ filters (1 units @ 4.00 hrs each @ \$175.00 /hr = \$700.00)</u></li> <li>▪ <u>Replace Hialeah Hospital BDA filters with 18MHZ filters (1 units @ 4.00 hrs each @ \$175.00 /hr = \$700.00)</u></li> <li>▪ <u>Replace Palmeto General Hospital BDA filters with 5MHZ filters (1 units @ 4.00 hrs each @ \$175.00 /hr = \$700.00)</u></li> <li>▪ <u>Replace Hialeah Hospital BDA filters with 5MHZ filters (1 units @ 4.00 hrs each @ \$175.00 /hr = \$700.00)</u></li> <li>▪ <u>MSRC - Replace Tower Top Amp filters with 5MHZ filters (BD) (15hrs @ \$175.00 /hr = \$2,625.00)</u></li> <li>▪ <u>MSRC - Replace Tower Top Amp filters with</u></li> </ul>		

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<ul style="list-style-type: none"><li>18MHZ filters (BD) (15hrs @ \$175.00 /hr = \$2,625.00)</li><li>PM - Project Manager (48hrs @ \$175.00 /hr = \$8,400.00)</li><li>SE - System Engineer (28hrs @ \$175.00 /hr = \$4,900.00)</li><li>ST - System Technologist (100hrs @ \$175.00 /hr = \$17,500.00)</li><li>TTS - Tower Top Amp Installations (6hrs @ \$1,728.00 /hr = \$10,368.00)</li></ul>		
<ul style="list-style-type: none"><li>Project Management for infrastructure equipment reconfiguration (56hrs @ \$64.50 /hr = \$3,612.00)</li></ul>	(Incumbent) City of Hialeah	\$3,612.00
<b>b. Infrastructure Equipment Reconfiguration Equipment/Software:</b> <ul style="list-style-type: none"><li>6809 28 Ch Controller Code Plug - Model No:UOST-0001 (6 @ \$1,298.00 /Each)</li><li>CSC Software - Model No:UOST-0004 (3 @ \$1,509.00 /Each)</li><li>SIP Replacement (GW3-COM-LE1-B - Model No:L3518 (4 @ \$27,455.00 /Each)</li><li>SIMS II Client (GW3-COM-CL1-B) - Model No:L3516 (3 @ \$42,840.00 /Each)</li><li>SIMS II Host/Client (GW3-COM-HO1-B) - Model No:L3517 (1 @ \$94,350.00 /Each)</li></ul>	(Vendor) Motorola	\$373,932.00
<ul style="list-style-type: none"><li>RF MODEM/CLOCKING RADIO 800MHZ 10-15W - Model No:HKUN4033 (2 @ \$1,840.00 /Each)</li><li>POWER SUPPLY &amp; CBL (1-25 WATT MODELS) - Model No:HPN4008 (2 @ \$187.00 /Each)</li><li>RADIO SERVICE S/W INSTRUCTION MANUAL - Model No:6881031C15 (1 @ \$17.00 /Each)</li><li>\$2500 ROUTER T1/E1 DAUGHTER BOARD - Model No:ST2512 (4 @ \$720.00 /Each)</li><li>\$2500 MULTIPROTOCOL WAN ROUTER - Model No:ST2500 (2 @ \$2,790.00 /Each)</li><li>SNAP ON PLUG, RJ-45 PACK OF 10 - Model No:CDN6224 (2 @ \$38.00 /Each)</li><li>10 BASE-T PLENUM CABLE 500 FT - Model No:CDN6222 (1 @ \$177.00 /Each)</li><li>HP PROCURVE SWITCH 2626B - Model No:DSJ4900B (2 @ \$1,800.00 /Each)</li><li>TX RX Combiner Cables - Model No:DO9200HIALEAHL (3 @ \$803.00 /Each)</li><li>TX RX Combiner Cables - Model</li></ul>		

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<ul style="list-style-type: none"><li>• <u>No:DO9200HIALEAH2 (3 @ \$803.00 /Each)</u></li><li>• <u>5MHz filter kit for the TTA - Model</u> <u>No:DO8986A076875 (3 @ \$534.00 /Each)</u></li><li>• <u>18MHz filter kit for the TTA - Model</u> <u>No:DO8986A0768718 (3 @ \$711.00 /Each)</u></li><li>• <u>5MHz filter kit for the BDA - Model</u> <u>No:DO8989A963905</u></li><li>• <u>18MHz filter kit for the BDA - Model</u> <u>No:DO8989A9639018</u></li><li>• <u>SMARTNET PKG MCS2000 - Model</u> <u>No:H1627A</u></li><li>• <u>ENH: UPGRADE TO SMARTNET - Model</u> <u>No:Q326 (38 @ \$45.00 /Each)</u></li><li>• <u>ENH: 150 MODE CAPABILITY - Model</u> <u>No:H259 (38 @ \$60.00 /Each)</u></li></ul>		
<b><u>III. Engineering and Verification</u></b>	<b><u>(Vendor)</u></b> <b><u>Motorola</u></b>	<b><u>\$53,310.00</u></b>
<ul style="list-style-type: none"><li>▪ <u>FSO - Pre Rebanding Benchmark Testing</u> <u>(24hrs @ \$175.00 /hr = \$4,200.00)</u></li><li>▪ <u>FSO - Post Rebanding Acceptance Testing</u> <u>(24hrs @ \$175.00 /hr = \$4,200.00)</u></li><li>▪ <u>MSRC - Functional Testing (8hrs @ \$175.00</u> <u>/hr = \$1,400.00)</u></li><li>▪ <u>Hicaps - Method III Drive Test (144hrs @</u> <u>\$175.00 /hr = \$25,200.00)</u></li><li>▪ <u>MSS - Voyager Testing Equipment</u> <u>Deployment (2hrs @ \$3,030.00 /hr =</u> <u>\$6,060.00)</u></li><li>▪ <u>PM - Project Manager (20hrs @ \$175.00 /hr =</u> <u>\$3,500.00)</u></li><li>▪ <u>SE - System Engineer (10hrs @ \$175.00 /hr =</u> <u>\$1,750.00)</u></li><li>▪ <u>ST - System Technologist (40hrs @ \$175.00</u> <u>/hr = \$7,000.00)</u></li></ul>		
<b><u>IV. Professional Services</u></b>	<b><u>(Vendor)</u></b> <b><u>Motorola</u></b>	<b><u>\$150,503.50</u></b>
<ul style="list-style-type: none"><li>▪ <u>PM - Project Manager (220hrs @ \$175.00 /hr =</u> <u>\$38,500.00)</u></li><li>▪ <u>SE - System Engineer (84hrs @ \$175.00 /hr =</u> <u>\$14,700.00)</u></li><li>▪ <u>ST - System Technologist (96hrs @ \$175.00 /hr</u> <u>= \$16,800.00)</u></li><li>▪ <u>TE - Travel (1 @ \$80,503.50 /unit = \$80,503.50)</u></li></ul>		
<b><u>V Contracts and Legal</u></b>	<b><u>(Vendor)</u></b> <b><u>Leibowitz &amp; Associates</u></b>	<b><u>\$14,000.00</u></b>
<ul style="list-style-type: none"><li>▪ <u>Leibowitz &amp; Associates - Legal Fees to</u> <u>Negotiate FRA (43hrs @ \$325.00 /hr =</u> <u>\$14,000.00)</u></li></ul>		
<b><u>City of Hialeah</u></b>	<b><u>Incumbent</u></b>	<b><u>\$72,530.25</u></b>
<b><u>Motorola</u></b>	<b><u>Vendor</u></b>	<b><u>\$997,117.50</u></b>
<b><u>EEJ</u></b>	<b><u>Vendor</u></b>	<b><u>\$12,145.50</u></b>

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<b>Leibowitz &amp; Associates</b>	<b>Vendor</b>	<b>\$14,000.00</b>
<b>Total Estimated Costs</b>		<b>\$1,095,793.25</b>

2. **Reconfiguration Milestones:** For each major reconfiguration milestone listed in the table below, provide the estimated duration in number of days required to complete the task identified.

Reconfiguration Task	Estimated Duration in # of Days
Reconfigure Subscriber Equipment	
Reconfigure Infrastructure Equipment	

3. **Implementation Plan:** The attached Implementation Plan and associated deliverables describe the reconfiguration implementation plan resulting from funds expended under the Planning Funding Agreement dated [PFA effective date].

See attachment.

4. **Cost Estimate:**

Description of Work To Be Performed	Payee (separately identify Incumbent and each Vendor being paid for work performed)	Estimated Cost(s) for Incumbent and each Vendor (Not to exceed listed amount)
I. Subscriber Equipment Reconfiguration		
a. Subscriber Equipment Reconfiguration		
b. Project Management		
c. Travel Costs		
II. Infrastructure Equipment Reconfiguration		
a. Central Site Infrastructure		
b. Repeater Site Infrastructure		
c. Miscellaneous Components		
d. Project Management		
e. Travel Costs		

III. Engineering and Verification		
a. Planning Costs, if Required		
1. Frequency Analysis		
2. System Inventory		
3. Implementation Plan		
b. System Verification		
IV. Contracts and Legal		
a. Legal Fees to Negotiate FRA		
b. FCC Licensing Work		
c. Other Legal Fees		
V. Other Costs		
a. Other Project Management		
b. Taxes		
Total Estimated Costs		

**Certification**

Pursuant to the Order, Incumbent hereby certifies to the Transition Administrator appointed pursuant to the Order that the funds requested above are the minimum necessary to provide Incumbent reconfigured facilities comparable to those presently in use in a manner that is reasonable, prudent and timely. Incumbent further certifies, to the best of Incumbent's knowledge, that any Vendor costs identified on the Schedule C are comparable to costs previously charged by each such Vendor to Incumbent.

Signature: \_\_\_\_\_  
Print Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Phone Number: \_\_\_\_\_  
E-mail: \_\_\_\_\_  
Date: \_\_\_\_\_

**SCHEDULE D****1) Loaned Reconfiguration Equipment (provided by Nextel)**

Quantity	Manufacturer	Description	Model Number	New/Used

**[Reserved]****2) Nextel Replacement Equipment (provided by Nextel)**

Quantity	Manufacturer	Description	Model Number	New/Used
13	EFJ	EFJ 5300 Dash Mount Radio	242-537G-001AAYB6	New
13	EFJ	SmartNet Operation	299-RBOM-001	New
2	EFJ	EFJ 5100 Model 3 Portable Radio, Battery	242-5173-810YY5	New
2	EFJ	SmartNet Operation	299-RBOP-001	New
1	EFJ	External Speaker	250-0151-006	New
2	EFJ	Single Bay Charger	250-5100-210	New
46	SmartNet	MTS2000 II Portable Radio (each with 512K memory) 4 units are spares and SN will not receive returned radios for these.	MTS2000 (512k)	Used
17	SmartNet	MTS2000 III Portable Radio (each with 512K memory) 2 units are spares and SN will not receive returned radios for these.	MTS2000 (512k)	Used
63		Included Std Whip Antenna		Used
63		Included Std Belt Clip		Used
63		Included Standard Battery		Used
63		Analog Smartnet (H37)		Used
63		Remote Monitor		Used
6		Spare Battery		Used
6		Single Unit Rapid Charger		Used
2		5MHz filter kit for the BDA	DQ8989A963905	
2		18MHz filter kit for the BDA	DQ8989A9639018	

**3) Nextel Replaced Equipment (to be delivered to Nextel prior to Closing the Reconciliation Date)**

Quantity	Manufacturer	Description	Model Number
13	EFJ	EFJ 9883 Dash Mount Mobile Radios with Emergency Footswitch Interface, SmartNet Operation	242-9883-302
2	EFJ	EFJ 7780 Model 3 Portable Radio	242-7780-303
13	EFJ	9883 External Speaker	
2	EFJ	7780 Single Bay Charger	
42	SmartNet	MTS2000 II Portable Radio (each with 256K memory, antenna and at least one battery)	MTS2000 II (256K)
15	SmartNet	MTS2000 III Portable Radio (each with 256K memory, antenna and at least one battery)	MTS2000 III (256K)
3		CSC Software	UOST-0004
4		SIP Package	
3		SIMS II Client Package	
1		SIMS II Host/Client Package	
2		RF MODEM/CLOCKING RADIO 800MHZ 10-15W	

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Quantity	Manufacturer	Description	Model Number
2		POWER SUPPLY & CBL (1-25 WATT MODELS)	
4		S2500 ROUTER T1/E1 DAUGHTER BOARD	
2		S2500 MULTIPROTOCOL WAN ROUTER	
2		HP PROCURVE SWITCH 2626B	
2		5MHz filter for BDA	
2		18MHz filter for BDA	

**4) Motorola Schedule D Equipment (to be provided by Motorola) – Motorola radios and flash- kits and accessories only**

a) Motorola Subscriber Services will be provided for the following Motorola Schedule D Equipment

Quantity	Description	Radio Software	Encryption	Model Number
129	XTS5000 Portable Radio Model II 800 MHz	SmartNet		H18UCF9PW6 N
23	XTS2500 RB III Portable Radio Kit	SmartNet		XTS2500 RB III
23	IP67 Immersible Option			QA00211AA
23	IMPRES BATTERY FM NIMH IMMERSIBLE 2000 MAH			Q3933 SUBM
23	Spare Battery			NNTN6263
129	Analog Operation			Q241
129	Smartnet Software			H37
129	Single Unit Rapid Charger			NTN1873
30	Vehicular Adapter - Open Face BNC			N2002
30	Next Generation Mobile Microphone			Q760
30	Audio PA and Speaker with Cable			Q147
30	800 MHz RF PA (806-870 MHz) 15W			NLF1258
129	RF Adaptor Switch			NTN8327
129	3db Antenna			HAF4017
129	BATTERY NICAD FM 1525MAH RUGGED (NTN8297)			H223RUGD
129	SUBMERSIBLE - 6 FT. 2 HOURS (RUGGED) H499 721			H499
129	Impress smart rugg NIHM 2000MAH			NNTN4437B
29	Speaker Microphones for the XTS5000			NMN6247
29	XTL2500 RB Mobile Radio Kit, Dash	SmartNet		XTL2500 RB
40	XTL5000 Mobile Radio 800 MHz	SmartNet		M20URS9PW1AN
46	XTL5000 Console/ette 800MHz	SmartNet		L20URS9PW1AN
40	Antenna - 1/4 wave			G335
27	Palm Microphone - Motorcycle			W22AT
13	Palm Microphone			W22
46	No Microphone Needed			G90
46	O5 Control Head			G442
46	O5 Control Head Software			G444
27	XTL Motorcycle Control Head Software			G138
27	Motorcycle Mounting			G67MTCL
13	W9 Control Head			G81
27	Motorcycle Control Head W7			G84
13	W9 Control Head Software			G99
13	Remote Mount			G67
13	Loud Speaker - 7.5 Watt			B18

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Quantity	Description	Radio Software	Encryption	Model Number
27	Loud Speaker - 7.5 Watt - Motorcycle			B18CM
46	Omit Speaker			G142
86	Analog Operation			G241
86	SmartNet Operation			G50
86	Enh ID Display			G114
27	No Motorcycle enclosure needed			W620
13	Dual Control Head W9			W800
13	Remote Mount Cable - 30 ft			G610
20	Basic Audio Control Interface Board			L791
26	Tone Remote Interface Board			L146
20	Digital Junction Box - Console			L3208
22	MC3000 Digital Deskset			L3223
13	Palm Microphone (W7 or W9)			G833
18	Desktop Microphone			W382

b) Motorola Subscriber Services will not be provided for the following Motorola Schedule D Equipment

Quantity	Description	Radio Software	Encryption	Model Number
1215	FlashKit	SmartNet		FlashKit

**5) Motorola Replaced Equipment (to be delivered to Motorola within 30 days of receipt of Motorola Schedule D Equipment)**

Quantity	Description	Radio Software	Encryption	Mounting	Model Number
129	MTS2000 I Portable Radio (each with 512K memory, antenna, at least one FM battery and charger)	SmartNet			MTS2000 I (512K)
23	MTS2000 I Portable Radio (each with 512K memory, antenna and at least one FM battery)	SmartNet			MTS2000 I (512K)
30	Vehicular Adapter - Open Face BNC (from MTS2000 converta-com)				
30	Next Generation Mobile Microphone (from MTS2000 converta-com)				
30	Audio PA and Speaker with Cable (from MTS2000 converta-com)				
30	800 MHz RFPA (806-870 MHz) 15W. (from MTS2000 converta-com)				
129	RF Adaptor Switch (converta.com ready option from MTS2000)				
129	3db Antenna (converta.com ready option from MTS2000)				
129	BATTERY NICAD FM 1525MAH RUGGED - battery (converta.com ready option from MTS2000)				
129	Impress smart rugg NIHM 2000MAH - Spare battery (converta.com ready option from MTS2000)				
29	Speaker Microphones for MTS2000				

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Quantity	Description	Radio Software	Encryption	Mounting	Model Number
<u>25</u>	<u>Spectra Mobile Radio (each with C2 control head and mic)</u>	<u>SmartNet</u>		<u>Dash</u>	<u>Spectra</u>
<u>4</u>	<u>Spectra Mobile Radio (each with C5 control head and mic)</u>	<u>SmartNet</u>		<u>Dash</u>	<u>Spectra</u>
<u>27</u>	<u>Spectra Motorcycle (each with C7 control head and mic)</u>	<u>SmartNet</u>		<u>Motorcycle</u>	<u>Spectra</u>
<u>13</u>	<u>Spectra Mobile Radio (each with C9 control head and mic)</u>	<u>SmartNet</u>		<u>Remote</u>	<u>Spectra</u>
<u>26</u>	<u>Spectra Consolette (each with control head and tone remote interface board)</u>	<u>SmartNet</u>			<u>Spectra</u>
<u>20</u>	<u>Spectra Consolette (each with control head and basic audio control interface board)</u>	<u>SmartNet</u>			<u>Spectra</u>
<u>20</u>	<u>Digital Junction Box - Consolette</u>				
<u>22</u>	<u>DGT9000 Digital Deskset</u>				
<u>13</u>	<u>Palm Microphone</u>				
<u>18</u>	<u>Desktop Microphone</u>				

**SCHEDULE E**

Product Typical Values

**(1) Motorola Equipment**

Item		Rebanding Product Typical Value (% are discount off list price)
Mobile, High Spec (XTL2500 RB)		\$ 2,050
<b>Accessories &amp; Options</b>		
SmartZone Operation	\$ 162	
Digital Operation	\$ 234	
Siren	\$ 637	
Console Power Kit	\$ 500	
Console Tone Remote	\$ 475	
DTMF Microphone	\$ 180	
DEK	\$ 475	
Extra Loud Speaker	\$ 106	
Dual Control Head	\$ 575	
Dual Control Head Mic	\$ 80	
Dual Control Head Cable	\$ 95	
Dual Control Head Speaker	\$ 60	
Multi-Radio SW Kit	\$ 750	
Multi-Radio HW Kit	\$ 1,750	
Emergency foot pedal	\$ 55	
AUXILIARY SWITCH PANEL	\$ 165	
Mobile UCM	\$ 750	
Key Lock Mounting		\$ 40

Item		Rebanding Product Typical Value (% are discount off list price)
Mobile, Low Spec (XTL1500 RB)		\$ 1,516
<b>Accessories &amp; Options</b>		
SmartZone Operation	\$ 58	
Digital Operation	\$ 72	
Extra Loud Speaker	\$ 106	
Emergency foot pedal	\$ 55	
AUXILIARY SWITCH PANEL	\$ 165	
Key Lock Mounting		\$ 40

Item		Rebanding Product Typical Value (% are discount off list price)
Mobile (XTL5000)		18%
<b>Accessories &amp; Options</b>		
XTL5000 Options		18%
Motorcycle Mounting		\$ 400

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Motorcycle Housing	\$ 900
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Item	Rebanding Product Typical Value
Portable, High Spec (XTS2500 III RB)	\$ 2,375.00
Accessories & Options	
SmartZone Operation	\$ 200

Digital Operation	\$ 400
Upgrade Both Kit Batteries to HICAP	\$ 140
Spare Battery HICAP	\$ 145
Portable Cables	\$ 251
Carry Case	\$ 60
Charger	\$ 165
PSM	\$ 150
RF Switch	\$ 140
RSM	\$ 97
Headset	\$ 439
Programming Software	\$ 265
Vehicular Charger	\$ 95
Portable UCM	\$ 750

Multi-unit Charger	\$ 788
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Item	Rebanding Product Typical Value
Portable, Low Spec (XTS1500 I RB)	\$ 1,120
Accessories & Options	
SmartZone Operation	\$ 150

Digital Operation	\$ 130
Upgrade Both Kit Batteries to HICAP	\$ 140
Spare Battery HICAP	\$ 145
Portable Cables	\$ 251
Carry Case	\$ 60
Charger	\$ 165
RSM	\$ 97
Headset	\$ 439
Programming Software	\$ 265
Vehicular Charger	\$ 95

Multi-unit Charger	\$ 788
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Item		Rebanding Product Typical Value (% are discount off list price)
Portable, XTS5000		18%
Portable, XTS2500	18%	
Mobile, XTL2500		18%
Item		Rebanding Product Typical Value (% are discount off list price)
Accessories & Options		
All accessories not listed above		5%

**(2) Nextel Replacement Equipment**

The Product Typical Values for Nextel Replacement Equipment shall be:

- a. for Nextel Replacement Equipment set forth on Schedule C, the cost shown on Schedule C for the item of Nextel Replacement Equipment; or
- b. for Nextel Replacement Equipment comprising EFJohnson 5100 & 5300 series radios and associated accessories, the most recent list price as of the date a reconciliation statement is sent to Incumbent by Nextel, less 25%.

Exhibit A

**Incumbent Information**

*The following questions are required for processing Electronic Funds Transfers and if Incumbent wants Nextel to complete the FCC filings on its behalf. All information contained herein shall be kept strictly confidential and will be used only in completion of the Frequency Reconfiguration transaction.*

**I. INCUMBENT INFORMATION**

*Please provide the following information:*

Company/Name: \_\_\_\_\_

Contact: \_\_\_\_\_ Title: \_\_\_\_\_

Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Check Appropriate Box: ☐ Individual/Sole Proprietor ☐ Corporation ☐ Partnership  
☐ Other \_\_\_\_\_

**II. BANK ACCOUNT INFORMATION (Required for payment processing.)**

Please select preferred payment method: ☐ Wire Transfer ☐ ACH ☐ Check

Name of Bank: \_\_\_\_\_

Address of Bank: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Bank Phone #: \_\_\_\_\_

ABA (Routing #): \_\_\_\_\_

Account #: \_\_\_\_\_

Name on Account: \_\_\_\_\_

Federal, State or Individual SS #: \_\_\_\_\_

Name of Brokerage Firm (if applicable): \_\_\_\_\_

Brokerage Account # (if applicable): \_\_\_\_\_

*In the event Incumbent will not provide information for Wire Transfer or ACH, Incumbent acknowledges that all payments will be made by check.*

Acknowledged by Incumbent: \_\_\_\_\_  
(signature required only if Incumbent does not want an electronic funds transfer)

**III. TAX INFORMATION**

The Internal Revenue Service and state tax authorities require Nextel to report all transactions, even if the transaction is exempt from taxation (if so, it will be reported to the IRS as a like-kind exchange). Therefore, it is necessary for Nextel to collect the information below. If you have specific questions about your tax implications in this transaction, you should consult your own accountant or financial advisor.

Incumbent's Federal or Individual Tax ID #, FEIN  
(Federal) or SSN (individuals): \_\_\_\_\_

State(s) – sales tax license, resale permit,  
employment, etc.): \_\_\_\_\_

Local (if applicable): \_\_\_\_\_

Current State and County location for your principal  
executive office: \_\_\_\_\_

If there has been more than one location for the  
principal executive office within the past five (5)  
years, list each such City/County/State location: \_\_\_\_\_  
\_\_\_\_\_

**IV. FINANCIAL RECONCILIATION CONTACT INFORMATION (indicate one)**

A. Check here if *same* as indicated in Item I above \_\_\_\_\_

B. Fill in below if *different* from Item I above as follows:

**Financial Contact Name:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**City/State/Zip:** \_\_\_\_\_

**Phone:** \_\_\_\_\_ **Fax:** \_\_\_\_\_

**Email:** \_\_\_\_\_

**V. REGULATORY INFORMATION**

**Would you like Nextel's Regulatory department to prepare and file all necessary FCC paperwork on your behalf?                      Yes     /     No**

*If I hereby acknowledge that all of the information provided herein is true and correct as of the date signed below, please provide the following information:*  
**Yes**, please provide the following Universal Licensing System ("ULS") information for your licenses: *Incumbent Signature:* \_\_\_\_\_  
**If No**, please provide the following information regarding who will take care of the preparation and filing of all necessary FCC paperwork on your behalf:

<b>Print Name:</b> _____	
<b>FRN (FCC Registration Number):</b> _____	<b>Contact Name:</b> _____
<b>Title:</b> _____	
<b>ULS PASSWORD:</b> _____	<b>Organization:</b> _____
<b>Date:</b> _____	
<b>Contact Representative for any FCC related issues:</b>	<b>Address:</b> _____
<b>Name:</b> _____	<b>City:</b> _____
<b>Phone Number:</b> _____	<b>State/Zip:</b> _____
	<b>Phone Number:</b> _____
	<b>Email Address:</b> _____

**EXHIBIT B**

Reconciliation Documentation

**Certification of Labor**

Incumbent hereby certifies that the internal labor information provided under the Agreement is true and complete to the best of Incumbent's knowledge. Incumbent further certifies that the the number of planning and reconfiguration tasks that the Incumbent performed using internal labor for each labor category on the TA-approved Cost Estimate (as that term is defined in the Agreement) ("Units") and/or the number of internal labor hours incurred in performing planning and reconfiguration tasks for each labor category on the TA-approved Cost Estimate ("Hours") were for 800 MHz Reconfiguration and have been documented in accordance with the TA's policy on Incumbent Labor at <http://www.800ta.org/content/PDF/policy/IncumbentLaborRatePolicy.pdf> as of the date of this statement. Incumbent acknowledges that the reconciliation documentation and related supporting records for the Agreement are subject to the TA's Review Rights (as that term is defined in the Agreement).

Incumbent Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

## Time Sheet Documentation

DEAL ID	DEAL NAME
---------	-----------

Name	Description of Activities	Actual Hours Worked	Actual Hourly Rate \$	Benefit Load \$ (if applicable)	Total Cost \$
				Total	

## Certification

Incumbent hereby certifies that the internal labor information provided under the Agreement is true and complete to the best of Incumbent's knowledge. Incumbent further certifies that the the number of planning and reconfiguration tasks that the Incumbent performed using internal labor for each labor category on the TA-approved Cost Estimate (as that term is defined in the Agreement) ("Units") and/or the number of internal labor hours incurred in performing planning and reconfiguration tasks for each labor category on the TA-approved Cost Estimate ("Hours") were for 800 MHz Reconfiguration and have been documented in accordance with the TA's policy on Incumbent Labor at <http://www.800ta.org/content/PDF/policy/IncumbentLaborRatePolicy.pdf> as of the date of this statement. Incumbent acknowledges that the reconciliation documentation and related supporting records for the Agreement are subject to the TA's Review Rights (as that term is defined in the Agreement).

**\*\* To be completed in lieu of Incumbent Invoice AND Certification of Labor Rates.**

Incumbent Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

**Title:** \_\_\_\_\_

Date: \_\_\_\_\_

Document comparison done by DeltaView on Tuesday, June 10, 2008 12:03:33 PM

Input:	
Document 1	file://C:/Documents and Settings/trk7895/My Documents/_ 800 MHz Transactions/Mediations/Hialeah, City of, FL/Hialeah FRA - Draft 050108.doc
Document 2	file://C:/Documents and Settings/trk7895/My Documents/_ 800 MHz Transactions/Mediations/Hialeah, City of, FL/Hialeah FRA - Final 061008.doc
Rendering set	Standard

Legend:	
Insertion	
Deletion	
Moved from	
Moved to	
Style change	
Format change	
Moved deletion	
Inserted cell	
Deleted cell	
Moved cell	
Split/Merged cell	
Padding cell	

Statistics:	
	Count
Insertions	1234
Deletions	72
Moved from	0
Moved to	0
Style change	0
Format changed	0
Total changes	1306

**FREQUENCY RECONFIGURATION AGREEMENT**

THIS FREQUENCY RECONFIGURATION AGREEMENT (this "Agreement") is made as of this \_\_\_\_ day of \_\_\_\_\_, 2008 ("Effective Date"), by and between the **City of Hialeah**, a political subdivision of the State of Florida ("Incumbent"), and **Nextel South Corp.** ("Nextel"), a wholly owned indirect subsidiary of Nextel Communications, Inc., a Delaware corporation (each is referred to in this Agreement as a "Party" and collectively as the "Parties").

**RECITALS**

- A. On August 6, 2004, the Federal Communications Commission ("FCC") issued a report and order that modified its rules governing the 800 MHz band. The purpose of the order was to reconfigure the 800 MHz band to minimize harmful interference to public safety radio communications systems in the band ("Reconfiguration").
- B. On December 22, 2004, the FCC issued a Supplemental Order and Order on Reconsideration. The August 6, 2004 and December 22, 2004 FCC orders, any binding actions issued by the Transition Administrator pursuant to its delegated authority under the orders ("Actions"), and any supplemental FCC orders in the Reconfiguration proceeding or subsequent Actions after the date of this Agreement, are collectively referred to as the "Order."
- C. Pursuant to the Order, Incumbent and Nextel are licensed on frequency allocations subject to Reconfiguration.
- D. Pursuant to the Order, Nextel will pay Incumbent an amount to effect a Reconfiguration of Incumbent's affected frequency allocations ("Reconfiguration Cost"). Incumbent will certify to the transition administrator appointed pursuant to the Order (the "Transition Administrator") that the Reconfiguration Cost is the minimum amount necessary to provide comparable facilities.

FOR GOOD AND VALUABLE CONSIDERATION, THE RECEIPT OF WHICH IS HEREBY ACKNOWLEDGED, THE PARTIES AGREE AS FOLLOWS:

**AGREEMENT**

**1. Frequencies to be Reconfigured:** Incumbent is the licensee under the license(s) granted by the FCC identified in Schedule A (the "Incumbent Licenses") for the operation of certain 800 MHz frequencies at the locations identified on Schedule A (the "Incumbent Frequencies"). Nextel, including its subsidiaries or affiliates, is the licensee under license(s) granted by the FCC (the "Nextel Licenses") for the operation of Specialized Mobile Radio ("SMR") systems on the frequencies and at the locations identified in Schedule B (the "Replacement Frequencies"). Pursuant to the Order, Incumbent must relinquish the Incumbent Frequencies and relocate its system to the Replacement Frequencies.

**2. Frequency Reconfiguration Process:**

(a) On or before the Closing Date (as defined below) (i) Nextel or Incumbent will cause the modification of the Incumbent Licenses to add the Replacement Frequencies or Nextel will cause the creation of a new FCC license for Incumbent that includes the Replacement Frequencies; (ii) Incumbent will assign the Incumbent Frequencies to Nextel or at Nextel's election will cause the deletion of the Incumbent Frequencies from the Incumbent Licenses following Reconfiguration of Incumbent's system; and (iii) Nextel will cause the modification and/or cancellation of the FCC licenses it holds for the operation of 800 MHz frequencies that are co-channels of the Replacement Frequencies, to the extent

required to meet the technical short-spacing requirements of Section 90.621(b) of the FCC's Rules, 47 C.F.R. § 90.621(b) ("Section 90.621(b)"), as such rule may be amended from time to time by the FCC.

(b) The Parties agree that Nextel will make the FCC assignment filings for the Replacement Frequencies on a future date to be determined by the Parties through mutual agreement in accordance with Section 5. The Incumbent reserves the right to make its own FCC filings for the Replacement Frequencies on such mutually agreed date, rather than relying on Nextel to do so, by so notifying Nextel in accordance with the Notice provision of this Agreement.

**3. Reconfiguration Costs:**

(a) Acknowledgement of Obligations. Incumbent agrees that:

(i) the cost estimate set forth in Schedule C (the "Cost Estimate") and the equipment set forth on Schedule D, sets forth all of the work identified in the Planning Phase and anticipated by the City as of the Effective Date required to reconfigure Incumbent's existing facilities to comparable facilities that will operate on the Replacement Frequencies; and

(ii) after all of the work contemplated by the Cost Estimate has been performed and all Schedule D equipment provided in accordance with this Agreement, and Nextel has paid all amounts required by this Agreement, as it may be amended, the Incumbent's reconfigured system shall be deemed for all purposes of the Order to be "comparable" to Incumbent's existing system prior to Reconfiguration, and Nextel shall be deemed to have satisfied its obligations under the Order to pay the cost of relocating Incumbent's system from the Incumbent Frequencies to the Replacement Frequencies.

(b) Payment Terms. In order to facilitate the Incumbent's transition to the Replacement Frequencies, Nextel will pay the costs incurred to reconfigure Incumbent's system in an amount not to exceed the Cost Estimate. Nextel will make payments in accordance with the payment terms identified on Schedule C for both payments made directly to Incumbent and payments made on behalf of Incumbent directly to each third party vendor identified on the Cost Estimate ("Vendor"). In addition to any items on Schedule C, Motorola, Inc. ("Motorola") will be providing Incumbent the equipment specifically identified on Schedule D as "Motorola Schedule D Equipment" (the "Motorola Schedule D Equipment"). Incumbent will enter into a purchase commitment with Motorola for the Motorola Schedule D Equipment and any Motorola items listed on Schedule C within 30 business days from the Effective Date. Nextel and Motorola have entered into an agreement enabling Nextel to pay for the Motorola Schedule D Equipment. Nextel will make payments directly to Motorola on behalf of Incumbent for the Motorola Schedule D Equipment and will make payments to Motorola as a "Vendor", as that term is used in this Agreement, for all Motorola costs identified on Schedule C. In order for Nextel to make payments to Motorola for the Motorola Schedule D Equipment, Incumbent will fax to Nextel a bill of lading associated with each shipment of Motorola Schedule D Equipment signed by an authorized representative of Incumbent acknowledging receipt of the Motorola Schedule D Equipment in good working order. Incumbent will be required to follow all Vendor related procedures identified in this Agreement for all Motorola Services and other Motorola costs identified on Schedule C.

(i) Within thirty (30) days of completion of Incumbent's reconfiguration and prior to the Reconciliation Date (as defined below), Incumbent will submit to Nextel all documentation demonstrating the actual costs that Incumbent reasonably incurred or paid to other entities to reconfigure Incumbent's system ("Actual Costs"). The documentation of Actual Costs ("Documentation") required by Nextel from Incumbent may include but is not limited to the following: (A) invoices for Actual Costs that are associated with a category of work as identified on Schedule C; (B) receipts substantiating the Actual Costs including receipts for any travel expenses incurred by Incumbent such as hotel invoices,

airfare receipts, etc.; (C) Incumbent's individual employee work orders, time sheets and associated general ledger records specifying the name of the person or employee performing work for Incumbent, the date work was performed, the hours worked and a description of the activity performed; (D) inventory lists and certified statements of the numbers of tasks completed for reconfiguration; (E) the applicable Exhibit B internal labor certifications. Upon receipt by Nextel of the Documentation for all Actual Costs and subject to Sections 20(b) and 21(b), Nextel and Incumbent will reconcile the Actual Costs against the payments made by Nextel to Incumbent, Vendor(s) and Motorola (for Motorola Services and/or other Motorola costs identified on Schedule C) and the Parties will agree upon the amount of any additional payments (subject to Section 8) due to Incumbent or any refunds due to Nextel. The effective date of agreement on reconciliation of Actual Costs, Motorola Replaced Equipment (as defined in Section 20) and Nextel Replaced Equipment (as defined in Section 21) and receipt by Nextel of the Reconciliation Statement signed by Incumbent is the "Reconciliation Date".

(ii) Any additional payments due to Incumbent from Nextel will be disbursed to Incumbent within thirty (30) days of the Reconciliation Date, provided the additional payments do not result from Actual Costs that exceed the Cost Estimate (in which case the provisions of Section 3(b)(iii) of this Agreement will apply). Any refunds due from the Incumbent to Nextel will be made within thirty (30) days of the Reconciliation Date.

(iii) In the event Incumbent's Actual Costs exceed the Cost Estimate, Incumbent must submit a Change Notice pursuant to Section 8 of this Agreement describing the change in scope of work that resulted in Incumbent's Actual Costs exceeding the Cost Estimate. Approval of any Change Notice will not be automatic but will be processed in accordance with Section 8 of this Agreement. Additional payments due to Incumbent, Vendor(s) or Motorola (for Motorola Services and/ or other Motorola costs identified on Schedule C), which result from an excess of Actual Costs over the Cost Estimate, as agreed on the Reconciliation Date, will be disbursed to Incumbent, Vendor or Motorola (for Motorola Services and/ or other Motorola costs identified on Schedule C) within thirty (30) days of execution by the Parties of the Amendment documenting the approved changes from such Change Notice.

(iv) Prior to the Closing Date (as defined below), Nextel will pay on behalf of itself and Incumbent, both Parties' applicable sales and transfer taxes, if any, and all FCC fees in connection with the preparation and filing of the necessary FCC applications for the assignment(s) described in Section 2 of this Agreement.

**4. Loaned Reconfiguration Equipment:** If needed in order to facilitate the Incumbent's transition to the Replacement Frequencies, Nextel will loan any equipment identified in Schedule D as "Loaned Reconfiguration Equipment" and will provide any equipment identified in Schedule D as "Nextel Replacement Equipment". The Loaned Reconfiguration Equipment and Nextel Replacement Equipment may be referred to collectively as the "Nextel Schedule D Equipment". Nextel will deliver any Nextel Schedule D Equipment in accordance with the terms on Schedule D. Incumbent will fax to Nextel a bill of lading associated with each shipment of Nextel Schedule D Equipment signed by an authorized representative of Incumbent acknowledging receipt of the Nextel Schedule D Equipment in good working order. Any Loaned Reconfiguration Equipment will be returned to Nextel by Incumbent within 30 days of completion of Incumbent's Reconfiguration and in no event later than the Reconciliation Date.

**5. Retuning Cooperation:** For purposes of this Section, the "Current Program Completion Date" shall mean June 26, 2008 or such other date as may be established by the FCC for the completion of the Reconfiguration. The Parties acknowledge that the number of frequencies and locations covered by this Agreement will require the Parties to cooperate closely in performing their respective reconfiguration activities. The Parties agree that: (i) as of the Effective Date, the Incumbent may begin the

reconfiguration of its subscriber units, in accordance with the appropriate sections of Schedule C and Schedule D; (ii) Incumbent may commence such other activities associated with the reconfiguration of its system as further detailed on Schedule C as of the Effective Date; and (iii) the Parties will agree on a schedule to make the FCC filings, clear the Replacement Frequencies and decommission the Incumbent Frequencies (the "Schedule"). Depending on the timing of the adoption of this Schedule, it may require the submission of a Change Notice in accordance with Section 8 and/or an Amendment to this Agreement, but in any event the Parties agree to adopt the Schedule no later than: (i) sixty (60) days from the Effective Date of this Agreement; or (ii) pursuant to a Schedule agreed upon at a TA scheduled "Implementation Planning Session" that includes the Incumbent's system, provided the Implementation Planning Session has been scheduled by the TA prior to the expiration of 60 days from the Effective Date of this Agreement; or (iii) such other date as the FCC may require. Notwithstanding the aforementioned, in the event the completion date in the Schedule for the reconfiguration of Incumbent's system extends beyond the Current Program Completion Date, the completion date in the Schedule will be subject to FCC approval.

**6. Representations and Warranties:** Each Party represents and warrants to the other as follows:

(a) it is duly organized, validly existing and in good standing under the laws of the state of its incorporation;

(b) this Agreement has been duly authorized and approved by all required organizational action of the Party;

(c) neither the execution and delivery of this Agreement nor the consummation of the transactions contemplated by this Agreement will conflict with, or result in any material violation or default under, any term of its articles of incorporation, by-laws or other organizational documents or any agreement, mortgage, indenture, license, permit, lease, encumbrance or other instrument, judgment, decree, order, law or regulation by which it is bound;

(d) it is the lawful and exclusive FCC licensee of its respective license(s) described in this Agreement, such licenses are valid and in good standing with the FCC, and it has the authority to request the FCC to assign, modify or cancel such licenses;

(e) there is no pending or threatened action or claim that would have the possible effect of enjoining or preventing the consummation of this Agreement or awarding a third party damages on account of this Agreement; and

(f) to the best of its knowledge, all information provided to the other Party concerning the transactions contemplated by this Agreement is true and complete.

All representations and warranties made in this Agreement shall survive the Closing Date (defined below) for two (2) years.

**7. Covenants:** From the Effective Date until the Closing Date (defined below), each Party will promptly notify the other Party of any pending or threatened action by the FCC or any other governmental entity or third party to suspend, revoke, terminate or challenge any license described in this Agreement or to investigate the construction, operation or loading of any system authorized under such licenses. From the Effective Date until the Closing Date, Incumbent will not enter into any agreement resulting in, or otherwise cause, the encumbrance of any license for the Incumbent Frequencies, and Nextel will not enter into any agreement resulting in, or otherwise cause, the encumbrance of any of the Replacement Frequencies.

**8. Changes:** The Parties acknowledge that as the Reconfiguration of Incumbent's facilities proceeds in accordance with the work contemplated by the Cost Estimate, the need for changes to the scope of such work may arise. The Parties agree that their review of any such needed changes must be performed expeditiously to keep the work on schedule and that they will provide sufficient staff to manage changes. However, should the City require additional staffing for this purpose, the cost of such personnel may be a Reconfiguration Cost, which would require Change Notice (defined below). Such staff shall not be employed until the change has been approved in accordance with this Section and the Parties have executed an amendment documenting the approved change in accordance with Section 26. If either Party believes that a change to the work contemplated by the Cost Estimate is required (including changes by Vendors and/or Motorola), such Party will promptly notify the other Party in writing. Such written notice (the "Change Notice") shall set forth (i) a description of the scope of the change to the work contemplated by the Cost Estimate believed to be necessary and (ii) an estimate of any increase or decrease in the Cost Estimate and in the time required to reconfigure Incumbent's existing facilities to operate on the Replacement Frequencies. A Party receiving a Change Notice shall perform its own analysis of the need for and scope of the change and its impact on the Cost Estimate and schedule and negotiate the change in good faith with the other Party, using commercially reasonable efforts to complete the negotiation within fourteen (14) business days. After the Parties have agreed upon a change to this Agreement, they shall prepare a proposed amendment to this Agreement pursuant to Section 26 and submit to the Transition Administrator a copy of the proposed amendment together with a written request for its approval. Such request shall be accompanied by reasonable documentation supporting the need for and scope of the change and any proposed increase or decrease in the Cost Estimate and in the time required to reconfigure Incumbent's existing facilities to operate on the Replacement Frequencies. No change to (x) the Cost Estimate, (y) the work contemplated by the Cost Estimate or (z) the time required to reconfigure Incumbent's existing facilities to operate on the Replacement Frequencies (including without limitation any obligation for Nextel to pay for costs associated with any of the foregoing changes) shall become effective until the Transition Administrator has approved the change in writing and both Parties have signed an amendment incorporating such approved change into this Agreement pursuant to Section 26.

**9. Closing:** The closing of the transactions contemplated by this Agreement will take place after (i) FCC approval of the assignment of the Incumbent Frequencies to Nextel and/or deletion of the Incumbent Frequencies from the Incumbent Licenses, (ii) FCC approval of the modification to add the Replacement Frequencies to the Incumbent Licenses or the creation of a new license for Incumbent that includes the Replacement Frequencies, (iii) notification by Incumbent to Nextel that the Incumbent Licenses are clear of all users pursuant to Section 5, (iv) delivery by Incumbent of all receipts, invoices and other documentation required to substantiate the Actual Cost and signing by Incumbent and delivery to Nextel of the Reconciliation Statement and other documents required to complete the Reconciliation similar to those identified on Exhibit B, (v) FCC approval of the modification and/or cancellation of the FCC licenses Nextel holds for the operation of 800 MHz frequencies that are co-channels of the Replacement Frequencies, to the extent required to meet the technical short-spacing requirements of Section 90.621(b) of the FCC's Rules, 47 C.F.R. § 90.621(b), as such rule may be amended from time to time by the FCC, (vi) the refund to Nextel or payment to Incumbent as described in Section 3(b)(ii), (if applicable); and (vii) the satisfaction of all other conditions specified in this Agreement (the "Closing Date").

**10. Closing Conditions:** Performance of each Party's Closing obligations is subject to satisfaction of the following conditions (except to the extent expressly waived in writing by the other Party):

(a) the continued truth and accuracy of the other Party's representations and warranties set forth in this Agreement;

(b) all of the covenants of the other Party described in this Agreement are performed in all material respects; and

(c) execution and delivery by the other Party of Closing documents as well as any other Closing instruments and documents either Party or its counsel may reasonably request. Incumbent will execute and deliver to Nextel a closing certification required by the Transition Administrator ("Completion Certification").

(d) The Parties will cooperate in good faith and exercise their reasonable best efforts to finalize and execute these instruments and documents on or prior to the Closing Date in order to effect the Reconfiguration contemplated.

**11. Review Rights:** In order to enable the Transition Administrator to comply with its audit obligations under the Order, Incumbent agrees to maintain records and other audit-level supporting evidence related to the costs that Incumbent has expended in connection with the Reconfiguration contemplated by this Agreement and that Nextel has paid or will pay to Incumbent pursuant to this Agreement. Incumbent agrees to maintain such records and make them reasonably available to the Transition Administrator for review or reproduction until eighteen (18) months after the date of Incumbent's executed Completion Certification required by this Agreement or for a longer period if Incumbent, for its own purposes, retains such records for a longer period of time. As used in this provision, "records" includes books, documents, accounting procedures and practices and other data regardless of type and regardless of whether such items are in written form, in the form of computer data or in any other form.

**12. Excluded Assets; No Assumption of Liabilities:** Nothing in this Agreement should be construed as a transfer or assignment from either Party to the other Party of any assets (including FCC licenses) except as expressly set forth in this Agreement. Other than as expressly provided in this Agreement, neither Party is obligated to assign and transfer to the other any asset, tangible or intangible, nor is either Party entitled to assume any asset, tangible or intangible. Neither Party is assuming, nor is either Party responsible for, any liabilities or obligations of the other Party arising out of or in connection with the other Party's licenses (or related systems and facilities) that are the subject of this Agreement.

**13. Confidentiality:** The terms of this Agreement, any confidential information disclosed in connection with this Agreement (whether before or after the Effective Date, including during any negotiations or any mediation related to such negotiations or the Agreement), and any proprietary, non-public information regarding the Incumbent Frequencies, Replacement Frequencies, Nextel's business and Incumbent's business must be kept confidential by the Parties and their employees, shareholders, agents, attorneys and accountants (collectively, "Agents"), which confidentiality will survive the Closing or termination of this Agreement for a period of two (2) years. The Parties may make disclosures: (i) as required by law including but not limited to Ch. 119 FL.Stat., (ii) to the Transition Administrator, (iii) to a manufacturer of Nextel Replacement Equipment to allow for the provisioning of that equipment to Incumbent (but only to the extent such disclosure specifically relates to that manufacturer's equipment as identified on Schedule D), and (iv) to a Vendor and/or Motorola (but only to the extent such disclosure specifically relates to that Vendor's work and costs under this Agreement (as identified on Schedule C) or Motorola's work and costs under this Agreement (as identified on Schedule C and/or Schedule D) as required to perform obligations under this Agreement, provided, however, that each Party will cause all of its Agents to honor the provisions of this Section. Nextel, Incumbent and their respective Agents may make disclosures regarding the terms of this Agreement to other public safety licensees and their Agents. Each party involved in such disclosures shall cause all of its Agents to confine the disclosure of the terms of this Agreement to only public safety licensees and will advise the party to whom the disclosure was

made, to limit further disclosure to only public safety licensees in accordance with the FCC Order, WT Docket No. 02-55, adopted January 8, 2007.

**14. Cooperation:** The Parties will cooperate with each other and the Transition Administrator with respect to the Reconfiguration work contemplated by this Agreement. Without limiting the foregoing obligations, the Parties agree to cooperate in the preparation of any applications required to be filed with the FCC, and Incumbent agrees to provide reasonable access to its facilities so that the Transition Administrator may comply with any audit obligations and so any Reconfiguration work contemplated by this Agreement may be performed in accordance with the Cost Estimate and performance schedule. If a Party is subject to a denial of FCC benefits for delinquent non-tax debts owed to the FCC that would prevent or delay the timely processing of any FCC applications, such Party shall cure such delinquency in an expeditious manner and at its sole expense.

**15. Indemnification:** From and after the Closing Date, each Party (the "Indemnifying Party") will indemnify and defend the other Party, its officers, directors, employees and agents (collectively, the "Indemnified Party"), from and against all demands, claims, actions, losses, damages, liabilities, costs and expenses, including, without limitation, reasonable attorneys' fees and expenses (collectively, "Costs"), asserted against, imposed upon or incurred by the Indemnified Party arising from or related to: (i) any breach of any covenant, agreement, representation or warranty of the Indemnifying Party contained in, or made pursuant to, this Agreement; or (ii) any and all liabilities (including successor liabilities) or obligations relating to periods prior to the Closing Date resulting from the Indemnifying Party's operation of the system operated pursuant to the Incumbent Licenses or the Nextel Licenses, as applicable, or the ownership or use of those licenses or from the Indemnifying Party's employment, or termination of employment, of its employees. The obligations under this Section survive the Closing for a period of three (3) years.

**16. Disputes:** The Parties agree that any dispute related to the Replacement Frequencies, Nextel's obligation to pay any cost of the Reconfiguration of Incumbent's system contemplated by this Agreement, or the comparability of Incumbent's reconfigured system to Incumbent's existing system prior to Reconfiguration, which is not resolved by mutual agreement, shall be resolved in accordance with the dispute resolution provisions of the Order, as it may be amended from time to time. Any dispute that (i) arises out of or is related to this Agreement and (ii) is within the jurisdiction of neither the Transition Administrator nor the FCC may be heard by a court of competent jurisdiction in Palm Beach County, Florida.

**17. No Gratuities:** No gift, gratuity, credit, thing of value or compensation of any kind shall be offered or provided by Incumbent, directly or indirectly, to any officer, employee or official of Nextel for the purpose of improperly obtaining or rewarding favorable treatment under this Agreement.

**18. Liens:** If any liens or security interests attach to any of Incumbent's facilities in favor of any vendor or service provider that is performing any Reconfiguration work contemplated by this Agreement as a result of Nextel's breach of any obligation to make direct payment (not in dispute) to such vendor or services provider, Nextel upon receipt of Notice from Incumbent will cooperate to remove any Liens.

**19. Vendor Performance Issues:** Incumbent will select and contract directly with Motorola and any vendor or service provider performing work required to reconfigure the Incumbent's existing facilities to operate on the Replacement Frequencies. Neither the Transition Administrator nor Nextel will be responsible for, or assume the risk of any failure of that Vendor or Motorola to perform its obligations under any contract entered into between Incumbent and such Vendor or Motorola in connection with the Reconfiguration contemplated by this Agreement.

**20. Motorola Replaced Equipment:**

(a) If the reconfiguration of the Incumbent's existing facilities to operate on the Replacement Frequencies involves the replacement of any of Incumbent's existing equipment with Motorola Schedule D Equipment (as identified on Schedule D), Incumbent will promptly return the equipment replaced by the Motorola Schedule D Equipment as identified on Schedule D (the "Motorola Replaced Equipment") to Motorola (shipping fees to be paid by Nextel).

(b) If Incumbent has ordered field implementation services for new subscriber radios ("Motorola Subscriber Services") and Incumbent fails to return any item of the Motorola Replaced Equipment to Motorola, Incumbent must either: (i) return to Motorola those items of the Motorola Schedule D Equipment that would have replaced the Motorola Replaced Equipment not returned, in the same condition as received; or (ii) in accordance with Incumbent's mutual agreement with Motorola, Incumbent will make payment to Motorola for those items of the Motorola Schedule D Equipment that would have replaced those items of the Motorola Replaced Equipment not returned (including tax (if any) and shipping).

(c) If Incumbent did not order Motorola Subscriber Services and Incumbent fails to return any item of the Motorola Replaced Equipment to Motorola within 30 days of receipt of the Motorola Schedule D Equipment, Incumbent must promptly return to Motorola those items of the Motorola Schedule D Equipment that would have replaced the Motorola Replaced Equipment not returned, in the same condition as received. If Incumbent fails to return any item of the Motorola Replaced Equipment to Motorola under this Section 20(c) and prior to receipt of a Reconciliation Statement from Nextel Incumbent does not demonstrate to Nextel that Incumbent has made payment of the Product Typical Value (as identified on Schedule E(1)) directly to Motorola for those items of Motorola Schedule D Equipment that would have replaced the Motorola Replaced Equipment not returned, then either: (i) Nextel will deduct the Product Typical Value for those items of Motorola Schedule D Equipment provided to replace the Motorola Replaced Equipment not returned to Motorola (including tax (if any) and shipping) (the "Motorola Equipment Refund") from the final payment due to Incumbent after the Reconciliation; (ii) Incumbent must pay the Motorola Equipment Refund to Nextel prior to the Closing Date (if no final payment is due to Incumbent); or (iii) Nextel will deduct the portion of the Motorola Equipment Refund up to the value of the final payment due to Incumbent and Incumbent must pay Nextel the remaining Motorola Equipment Refund not covered by the final payment prior to the Closing Date (if the final payment due Incumbent is less than the Motorola Equipment Refund).

**21. Nextel Replaced Equipment:**

(a) If the reconfiguration of the Incumbent's existing facilities to operate on the Replacement Frequencies involves the replacement of any of Incumbent's existing equipment with equipment provided by Nextel (as identified on Schedule D) or equipment the cost of which is being paid by Nextel pursuant to this Agreement as listed in Schedule C (collectively the "Nextel Replacement Equipment"), then (i) title to the equipment replaced by the Nextel Replacement Equipment (the "Nextel Replaced Equipment") as listed in Schedule D shall pass to Nextel at Closing free and clear of liens and any other encumbrances, and (ii) Incumbent shall execute such documentation as Nextel may reasonably request to transfer title to Nextel and shall within thirty (30) days deliver the Nextel Replaced Equipment to Nextel at Nextel's costs and pursuant to Nextel's instructions. Title to Nextel Replacement Equipment provided by Nextel will pass to Incumbent at Closing, and, for Nextel Replacement Equipment owned by Nextel, Nextel shall execute such documentation as Incumbent may reasonably request to transfer title to Incumbent free and clear of liens.

(b) If Incumbent fails to return any item of the Nextel Replaced Equipment to Nextel, Incumbent must return to Nextel those items of the Nextel Replacement Equipment that would have replaced the Nextel Replaced Equipment not returned, in the same condition as received, within thirty (30) days of receipt of the Nextel Replacement Equipment. If Incumbent fails to return any item of the Nextel Replaced Equipment to Nextel under this Section 21(b) and a Product Typical Value is set forth in Schedule E(2) for the item of Nextel Replacement Equipment then either: (i) Nextel will deduct the Product Typical Value (as set forth in Schedule E(2)) for those items of Nextel Replacement Equipment provided to replace the Nextel Replaced Equipment not returned to Nextel (including tax (if any) and shipping) (the "Nextel Equipment Refund") from the final payment due to Incumbent after the Reconciliation less any Motorola Equipment Refund; (ii) Incumbent must pay Nextel the Nextel Equipment Refund prior to the Closing Date (if no final payment is due to Incumbent and in addition to any Motorola Equipment Refund payment); or (iii) Nextel will deduct the portion of the Nextel Equipment Refund up to the value of the final payment due to Incumbent less any Motorola Equipment Refund, and Incumbent must pay Nextel the remaining Nextel Equipment Refund and any Motorola Equipment Refund not covered by the final payment prior to the Closing Date (If the final payment due Incumbent is less than the Nextel Equipment Refund and any Motorola Equipment Refund).

**22. Termination:** This Agreement may be terminated and the transactions contemplated by this Agreement abandoned: (i) by mutual consent of the Parties provided in writing; (ii) for cause by either Party upon material breach of the other Party, following a thirty (30) day period for cure by the breaching Party following written notice of the breach or (iii) by Nextel in the event of any Adverse Decision by any governmental entity of competent jurisdiction affecting the Order. For purposes of this Agreement, an "Adverse Decision" means an order, decree, opinion, report or any other form of decision by a governmental entity of competent jurisdiction that results, in whole or part, in a stay, remand, or reversal of the Order, or otherwise in any revision to the Order that Nextel reasonably determines in its sole discretion, to be adverse to its interests. In the event of termination, the Parties shall take all necessary action (including preparing and filing FCC documents) to return the *status quo ante* on the date of this Agreement. In the event of termination, Nextel shall pay all costs associated with the return to the *status quo ante* except if such termination was due to an uncured material breach by Incumbent.

**23. Attorney's Fees:** In any legal proceeding by a Party to enforce its rights under this Agreement against the other Party, the Party prevailing in such proceeding will be entitled to recover its reasonable attorney's fees and costs from the other Party.

**24. Notices:** All notices and other communications under this Agreement must be in writing and will be deemed given (i) the same day if delivered personally or sent by facsimile; (ii) the next business day if sent by overnight delivery via a reliable express delivery service; or (iii) after five (5) business days if sent by certified mail, return receipt requested, postage prepaid. All notices are to be delivered to the Parties at the following addresses:

<b>If to Incumbent, to:</b>  City of Hialeah Telecommunications Division 83 East 5th Street – Room 239 Hialeah, FL 33010 Attn: Antonio E. Arce Phone: (305) 883-5821 Fax: (305) 520-4600 Email: <a href="mailto:AArce@hialeahfl.gov">AArce@hialeahfl.gov</a>	<b>If to Nextel, to:</b>  Nextel South Corp. c/o Nextel Communications, Inc. 2001 Edmund Halley Drive Reston, VA 20191-3436 Attn: Heather P. Brown, Esq. Phone: (703) 433-4467 Fax: (703) 433-4483
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With a copy that shall not constitute Notice to:	With a copy that shall not constitute Notice:
Ila L. Feld, Esq. LEIBOWITZ & ASSOCIATES, P.A. One Southeast Third Avenue Suite 1450 Miami, FL 33131 Phone: (305) 530-1322 Fax: (305) 530-9417 Email: <a href="mailto:IFeld@broadlaw.com">IFeld@broadlaw.com</a>	Nextel Communications, Inc. 6575 The Corners Parkway Norcross, GA 30092 Attn: William Jenkins, VP Spectrum Resources Phone: (770) 326-7484 Fax: (678) 405-8252

**25. Assignment:** This Agreement is binding upon and inures to the benefit of the Parties and their respective successors and permitted assigns. Either Party may assign this Agreement to any direct or indirect subsidiary or affiliate of the Party, upon delivery of written notice to the other Party.

**26. Amendments:** This Agreement, including without limitation the scope of work contemplated hereby and the Estimated Cost thereof to be paid by Nextel, may be amended or modified only by a written instrument signed by authorized representatives of both Parties, provided, however, no amendment or modification to this Agreement shall become effective until approved by the Transition Administrator.

**27. Benefits:** This Agreement is for the benefit of the Parties and their successors and permitted assigns, and nothing in this Agreement gives or should be construed to give any legal or equitable rights under this Agreement to any person or entity, other than (i) the successors and assigns of the Parties, and (ii) the Transition Administrator as specifically provided for in this Agreement.

**28. Miscellaneous:** If any provision(s) of this Agreement is held in whole or part, to be invalid, void or unlawful by any administrative agency or court of competent jurisdiction, then such provision(s) will be deemed severable from the remainder of this Agreement, will in no way affect, impair or invalidate any other provision contained in the Agreement and the Parties will use their commercially reasonable efforts to amend this Agreement to make the unlawful provision compliant with applicable law so as to preserve the rights and obligations of the Parties. No action taken pursuant to this Agreement should be deemed to constitute a waiver of compliance with any representation, warranty, covenant or agreement contained in this Agreement and will not operate or be construed as a waiver of any subsequent breach, whether of a similar or dissimilar nature. This Agreement, together with the Schedules, constitutes the entire understanding and agreement between the Parties concerning the subject matter of this Agreement, and supersedes all prior oral or written agreements or understandings. This Agreement is governed by the laws of the State of Florida without regard to conflicts of law principles thereof. This Agreement may be executed in one or more counterparts, including by facsimile, which will be effective as original agreements of the Parties executing the counterpart.

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In consideration of the mutual consideration set forth herein, this Agreement is effective as a legally binding agreement between the Parties upon execution by the Parties.

INCUMBENT:

NEXTEL:

**City of Hialeah, Florida**

**Nextel South Corp.**

By: \_\_\_\_\_

By: \_\_\_\_\_

Name: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Title: \_\_\_\_\_

**SCHEDULE A****Incumbent Frequencies****Incumbent's Name:** City of Hialeah, FL**Incumbent Assigns to Nextel:**

<b>Call Sign</b>	<b>Frequency</b>	<b>Licensee</b>	<b>Location #</b>	<b>of Frequencies</b>	<b>Expiration Date</b>	<b>Latitude (N)</b>	<b>Longitude (W)</b>
WPCT375	866.1625	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-49'-36.4'	80°-16'-49.2'
WPCT375	866.1625	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-20.3'	80°-15'-57.2'
WPCT375	866.1625	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-29.3'	80°-19'-45.2'
WPCT375	866.2500	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-29.3'	80°-19'-45.2'
WPCT375	866.2500	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-49'-36.4'	80°-16'-49.2'
WPCT375	866.2500	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-20.3'	80°-15'-57.2'
WPCT375	866.7875	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-49'-36.4'	80°-16'-49.2'
WPCT375	866.7875	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-29.3'	80°-19'-45.2'
WPCT375	866.7875	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-20.3'	80°-15'-57.2'
WPCT375	867.1625	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-49'-36.4'	80°-16'-49.2'
WPCT375	867.1625	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-20.3'	80°-15'-57.2'
WPCT375	867.1625	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-29.3'	80°-19'-45.2'
WPCT375	867.2000	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-20.3'	80°-15'-57.2'
WPCT375	867.2000	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-49'-36.4'	80°-16'-49.2'
WPCT375	867.2000	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-29.3'	80°-19'-45.2'
WPCT375	867.5875	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-49'-36.4'	80°-16'-49.2'
WPCT375	867.5875	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-29.3'	80°-19'-45.2'
WPCT375	867.5875	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-20.3'	80°-15'-57.2'
WPCT375	867.8500	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-49'-36.4'	80°-16'-49.2'
WPCT375	867.8500	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-29.3'	80°-19'-45.2'
WPCT375	867.8500	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-20.3'	80°-15'-57.2'
WPCT375	868.3000	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-29.3'	80°-19'-45.2'
WPCT375	868.3000	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-49'-36.4'	80°-16'-49.2'

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Call Sign	Frequency	Licensee	Location #	of Frequencies	Expiration Date	Latitude (N)	Longitude (W)
WPCT375	868.3000	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-20.3'	80°-15'-57.2'
WPCT375	868.3250	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-20.3'	80°-15'-57.2'
WPCT375	868.3250	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-29.3'	80°-19'-45.2'
WPCT375	868.3250	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-49'-36.4'	80°-16'-49.2'
WPCT375	868.8250	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-49'-36.4'	80°-16'-49.2'
WPCT375	868.8250	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-29.3'	80°-19'-45.2'
WPCT375	868.8250	Hialeah, City of	Hialeah, FL	1	8/5/2014	25°-52'-20.3'	80°-15'-57.2'
WPNW940	821.0125	Hialeah, City of	FL	1	7/21/2014		
WPNW940	821.5125	Hialeah, City of	FL	1	7/21/2014		
WPNW940	822.0125	Hialeah, City of	FL	1	7/21/2014		
WPNW940	822.5125	Hialeah, City of	FL	1	7/21/2014		
WPNW940	823.0125	Hialeah, City of	FL	1	7/21/2014		

**SCHEDULE B****Replacement Frequencies****Incumbent's Name:** City of Hialeah, FL**Nextel Assigns to Incumbent:**

<b>Replacement Frequency</b>	<b>Latitude (N)</b>	<b>Longitude (W)</b>	<b>ERP (W)</b>	<b>GE (ft.)</b>	<b>AH (ft.)</b>	<b>New Call Sign?</b>	<b>Location</b>	<b>Call Sign</b>
806.0125			33			N	FL	WPNW940
806.5125			33			N	FL	WPNW940
807.0125			33			N	FL	WPNW940
807.5125			33			N	FL	WPNW940
808.0125			33			N	FL	WPNW940
851.1625	25°-49'-36.4'	80°-16'-49.2'	108	10	194	N	Hialeah, FL	WPCT375
851.1625	25°-52'-20.3'	80°-15'-57.2'	147	10	184	N	Hialeah, FL	WPCT375
851.1625	25°-52'-29.3'	80°-19'-45.2'	159	7	184	N	Hialeah, FL	WPCT375
851.2500	25°-49'-36.4'	80°-16'-49.2'	108	10	194	N	Hialeah, FL	WPCT375
851.2500	25°-52'-20.3'	80°-15'-57.2'	147	10	184	N	Hialeah, FL	WPCT375
851.2500	25°-52'-29.3'	80°-19'-45.2'	159	7	184	N	Hialeah, FL	WPCT375
851.7875	25°-49'-36.4'	80°-16'-49.2'	108	10	194	N	Hialeah, FL	WPCT375
851.7875	25°-52'-20.3'	80°-15'-57.2'	147	10	184	N	Hialeah, FL	WPCT375
851.7875	25°-52'-29.3'	80°-19'-45.2'	159	7	184	N	Hialeah, FL	WPCT375
852.1625	25°-49'-36.4'	80°-16'-49.2'	108	10	194	N	Hialeah, FL	WPCT375
852.1625	25°-52'-20.3'	80°-15'-57.2'	147	10	184	N	Hialeah, FL	WPCT375
852.1625	25°-52'-29.3'	80°-19'-45.2'	159	7	184	N	Hialeah, FL	WPCT375
852.2000	25°-49'-36.4'	80°-16'-49.2'	108	10	194	N	Hialeah, FL	WPCT375
852.2000	25°-52'-20.3'	80°-15'-57.2'	147	10	184	N	Hialeah, FL	WPCT375
852.2000	25°-52'-29.3'	80°-19'-45.2'	159	7	184	N	Hialeah, FL	WPCT375
852.5875	25°-49'-36.4'	80°-16'-49.2'	108	10	194	N	Hialeah, FL	WPCT375
852.5875	25°-52'-20.3'	80°-15'-57.2'	147	10	184	N	Hialeah, FL	WPCT375
852.5875	25°-52'-29.3'	80°-19'-45.2'	159	7	184	N	Hialeah, FL	WPCT375
852.8500	25°-49'-36.4'	80°-16'-49.2'	108	10	194	N	Hialeah, FL	WPCT375
852.8500	25°-52'-20.3'	80°-15'-57.2'	147	10	184	N	Hialeah, FL	WPCT375

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Replacement Frequency	Latitude (N)	Longitude (W)	ERP (W)	GE (ft.)	AH (ft.)	New Call Sign?	Location	Call Sign
852.8500	25°-52'-29.3'	80°-19'-45.2'	159	7	184	N	Hialeah, FL	WPCT375
853.3000	25°-49'-36.4'	80°-16'-49.2'	108	10	194	N	Hialeah, FL	WPCT375
853.3000	25°-52'-20.3'	80°-15'-57.2'	147	10	184	N	Hialeah, FL	WPCT375
853.3000	25°-52'-29.3'	80°-19'-45.2'	159	7	184	N	Hialeah, FL	WPCT375
853.3250	25°-49'-36.4'	80°-16'-49.2'	108	10	194	N	Hialeah, FL	WPCT375
853.3250	25°-52'-20.3'	80°-15'-57.2'	147	10	184	N	Hialeah, FL	WPCT375
853.3250	25°-52'-29.3'	80°-19'-45.2'	159	7	184	N	Hialeah, FL	WPCT375
853.8250	25°-49'-36.4'	80°-16'-49.2'	108	10	194	N	Hialeah, FL	WPCT375
853.8250	25°-52'-20.3'	80°-15'-57.2'	147	10	184	N	Hialeah, FL	WPCT375
853.8250	25°-52'-29.3'	80°-19'-45.2'	159	7	184	N	Hialeah, FL	WPCT375

**SCHEDULE C**

**800 MHZ RECONFIGURATION**

**COST ESTIMATE – CERTIFIED REQUEST**

**Incumbent's Name:** City of Hialeah, FL

**Request for Reconfiguration Funding**

Pursuant to the Order, Incumbent is required to reconfigure its existing facilities and requests Nextel to fund the estimated reconfiguration costs included below:

**Incumbent Payment Terms:** Nextel will pay Incumbent an amount not to exceed the Estimated Cost(s) for Incumbent with respect to each category of work, as set forth below. Nextel will pay Incumbent \$36,265.13 within 15 days (30 days if Incumbent elects to be paid by check rather than electronic funds transfer) after receipt by Nextel of the fully executed Agreement and fully completed Incumbent Information Form (as set forth on Exhibit A). Nextel will pay any outstanding balance of the Actual Costs due to Incumbent within 30 days after the Reconciliation Date (as "Actual Costs" and "Reconciliation Date" are defined in Section 3(b)(i)).

**Vendor Payment Terms:** Nextel will pay each Vendor an amount not to exceed the Estimated Cost(s) for that Vendor with respect to each category of work, as set forth below. Nextel will pay each Vendor within 30 days after receipt by Nextel of (A) an invoice from the Vendor and (B) Incumbent's approval of receipt of goods and services and approval of associated costs included on the Vendor invoice.

**1. System Description:** The City of Hialeah operates a three-site, ten-channel, SmartNet II Plus analog only Simulcast system. The system's prime site and a collocated remote site are located at the Hialeah Fire Station 1. The other two remote sites are located at the Hialeah Police Dispatch site and the Bucky Dent site. Each transmit site utilizes two transmit antennas, two combiners, one receive antenna, and one tower-top amplifier / receive multi-coupler.

In addition to the simulcast system, the City of Hialeah operates two portable Quantar repeaters for emergency backup. The two backup transmitters use two antennas mounted on the tower and two duplexers. Additionally they have two back-up antennas stored on the ground used for mobile deployment if necessary. The repeaters and antennas are stored at the Bucky Dent site.

The network management system consists of four stand-alone SIP terminals located at the Hialeah Water and sewer, Telecommunications, Fleet, and Solid Waste departments. The city of Hialeah also operate a SIMS II system with one server, one local user terminal at the Hialeah Fire Dispatch, one remote user terminal at the Hialeah Police Dispatch and one dial in modem. The City of Hialeah operates a CENTRACOM II Gold Elite Console System and has two dispatch centers located at the Hialeah Fire Dispatch and Hialeah Police Dispatch. The dispatch centers have six operator positions each. The dispatch consoles are not affected by rebanding. There are 1027 portable radios, 573 mobile radios and 88 MOSCAD radios affiliated with the system.

The City of Hialeah also operates two Bi-Directional Amplifiers located at Hialeah Hospital and Palmetto General Hospital.

The major system elements to be reconfigured are summarized in the table below:

	<b>Total In System</b>	<b>Total Included in FRA</b>
Base station frequencies	10	10
- Voice channels	12	12
- Home/Control channels	6	6
Repeater sites	3	3
Other sites (remote recv, BDA)	2	2
Subscriber units retuned	212	212
Subscriber units reprogrammed	1152	1152
Subscriber units replaced	345	345
Subscriber units rebanded total	1709	1709

**2. Reconfiguration Milestones:** Identify the anticipated start date of the overall reconfiguration of your system (Project Start). Then, for each major reconfiguration milestone listed in the table below, provide the estimated duration in number of days required to complete the task identified.

<b>Reconfiguration Task</b>	<b>Start Date</b>	<b># of Days After Project Start Date for Start of Task</b>	<b>Estimated Duration in # of Days</b>
Project Start	TBD		
Reconfiguration Planning		TBD	7 days
Reconfigure Subscriber Equipment		TBD	69 days
Reconfigure Infrastructure Equipment		TBD	46 days
System Acceptance		TBD	10 days

**3. Cost Estimate:**

<b>Description of Work To Be Performed</b>	<b>Payee(separately identify Incumbent and each Vendor being paid for work performed)</b>	<b>Estimated Cost(s) for Incumbent and Each Vendor (Not to Exceed listed amount)</b>
<b>I. Subscriber Equipment Reconfiguration</b> <ul style="list-style-type: none"> <li>Replacement of Dash Mount Radios - De-install &amp; Install for standard sedan or light/medium truck with unit installed under the dash and no obstructions or special installation requirements. (29 units @ 2.30 hrs each @ \$118.00 /hr = \$7,870.60)</li> <li>Replacement of Remote Mount Radios - De-install &amp; install into Fire Truck (13 units @ 4.70 hrs each @ \$118.00 /hr = \$7,209.80)</li> <li>Replacement of Remote Mount Radios - De-install &amp; Install into special vehicle (Motorcycle) (27 units @ 4.70 hrs each @ \$118.00 /hr = \$14,974.20)</li> </ul>	(Vendor) Motorola	\$335,504.00

<ul style="list-style-type: none"><li>• Replacement of Remote Mount Radios - Add time for special Install conditions in cell to right: (Extra Travel, Time due to custom install, Install of new antenna cable and mount, and etc.) (46 units @ 4.70 hrs each @ \$118.00 /hr = \$25,511.60)</li><li>• Replacement of Remote Mount Radios - Installation of dual control head (13 units @ 2.80 hrs each @ \$118.00 /hr = \$4,295.20)</li><li>• Retune Existing Mobile Radios - • Functional Pre-Test of existing radio - Talk group call on system • Retune existing radio (no obstruction to retuning of radio) • Functional post test of existing radio - Talk group call on system (105 units @ 0.70 hrs each @ \$118.00 /hr = \$8,673.00)</li><li>• Retune Existing Mobile Radios - Removal and re-install of existing mobile radio if radio cannot be programmed in the vehicle due to obstruction to programming port. (3 units @ 0.90 hrs each @ \$118.00 /hr = \$318.60)</li><li>• Retune Existing Mobile Radios - • Functional Pre-Test of existing radio - Talk group call on system • Flash existing radio with Rebanding software • Load programming template into existing radio (no obstruction to programming port of radio and radio is to be flashed and programmed in the vehicle) (11 units @ 0.80 hrs each @ \$118.00 /hr = \$1,038.40)</li><li>• Retune Existing Mobile Radios - Removal and re-install of existing mobile radio if radio cannot be programmed in the vehicle due to obstruction to programming port. (341 units @ 1.00 hrs each @ \$118.00 /hr = \$40,238.00)</li><li>• Portable Radios - Retune Existing Portable (104 units @ 0.50 hrs each @ \$118.00 /hr = \$6,136.00)</li><li>• Portable Radios - Flashing and Retuning of Existing Portable Radio (800 units @ 0.60 hrs each @ \$118.00 /hr = \$56,640.00)</li><li>• Portable Radios - Replacement of Existing Portable Radio (215 units @ 0.50 hrs each @ \$118.00 /hr = \$12,685.00)</li><li>• 2nd Touch - Second programming of subscribers (remove old freqs.) Mobiles (306 units @ 0.70 hrs each @ \$118.00 /hr = \$25,275.60)</li></ul>		
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<ul style="list-style-type: none"><li>• 2nd Touch - Second programming of subscribers (remove old freqs.) Portables (758 units @ 0.50 hrs each @ \$118.00 /hr = \$44,722.00)</li><li>▪ MSS - MCS3000 Installation material (CAT5) (1 @ \$1,516.00 /unit = \$1,516.00)</li><li>▪ PM - Project Manager on Site Supervision &amp; Coordination (384hrs @ \$175.00 /hr = \$67,200.00)</li><li>▪ ST - ST Templates &amp; procedures supervision and approvals (48hrs @ \$175.00 /hr = \$8,400.00)</li><li>▪ SE - SE Subscribers Support (16hrs @ \$175.00 /hr = \$2,800.00)</li></ul>		
<ul style="list-style-type: none"><li>▪ Project management for subscriber equipment reconfiguration (456hrs @ \$64.50 /hr = \$29,412.00)</li><li>▪ Radio Template writing &amp; testing of 110 templates for the first round of programming (330hrs @ \$64.50 /hr = \$21,285.00)</li><li>▪ Radio Template writing &amp; testing of 110 templates to remove old frequencies for the second round of programming (110 units @ 1.00 hrs each @ \$64.50 /hr = \$7,095.00)</li><li>▪ Planning Costs - Subscriber Inventory (172.5hrs @ \$64.50 /hr = \$11,126.25)</li></ul>	(Incumbent) City of Hialeah	\$68,918.25
<ul style="list-style-type: none"><li>▪ Replacement of Dash Mount Radios - De-install &amp; Install - Install is in a transit vehicle (bus) with external emergency footswitch. Footswitch circuitry must be converted to new accessory connector and tested. (58.5hrs @ \$115.00 /hr = \$6,727.50)</li><li>▪ Portable Radios - Replacement of Existing Portable Radios - Load programming template into new radio - Functional post test of new radio - Talk group call on system - Unpackage Radios (1.2hrs @ \$115.00 /hr = \$138.00)</li><li>▪ Portable Radios - Remove Pre-Rebanding Frequencies from New Radios (6hrs @ \$115.00 /hr = \$690.00)</li><li>▪ Portable Radios - Blank Out Recovered Radios prior to Shipment to SN (3hrs @ \$115.00 /hr = \$345.00)</li><li>▪ Radio Templates (Masks) - Modify Radio (8hrs @ \$150.00 /hr = \$1,200.00)</li><li>▪ Other Tasks - Project Management - manage the deployment of subscriber units for all tasks listed above. (1.5hrs @ \$160.00 /hr = \$240.00)</li></ul>	(Vendor) EFJ	\$12,145.50

<ul style="list-style-type: none"><li>▪ Training - EFJ to Train City Staff on Radio Operation (8hrs @ \$130.00 /hr = \$1,040.00)</li><li>▪ Travel Expenses - EFJ Field Engineer, 3 days trip for training and templates. These costs will be billed at actual. (1 @ \$1,765.00 /unit = \$1,765.00)</li></ul>		
<b>II. Infrastructure Equipment Reconfiguration</b> <b>a. Infrastructure Equipment Reconfiguration Services</b> <ul style="list-style-type: none"><li>▪ Controllers (2 units @ 6.00 hrs each @ \$175.00 /hr = \$2,100.00)</li><li>▪ Repeaters (10 units @ 1.00 hrs each @ \$175.00 /hr = \$1,750.00)</li><li>▪ Combiners &amp; Duplexer (Antenna System) (2 units @ 2.00 hrs each @ \$175.00 /hr = \$700.00)</li><li>▪ Repeaters (12 units @ 1.00 hrs each @ \$175.00 /hr = \$2,100.00)</li><li>▪ Combiners &amp; Duplexer (Antenna System) (2 units @ 2.00 hrs each @ \$175.00 /hr = \$700.00)</li><li>▪ Retune Duplexers (2 units @ 1.00 hrs each @ \$175.00 /hr = \$350.00)</li><li>▪ Repeaters (10 units @ 1.00 hrs each @ \$175.00 /hr = \$1,750.00)</li><li>▪ Combiners &amp; Duplexer (Antenna System) (2 units @ 2.00 hrs each @ \$175.00 /hr = \$700.00)</li><li>▪ GenWatch local terminal (FD) (1 units @ 8.00 hrs each @ \$175.00 /hr = \$1,400.00)</li><li>▪ GenWatch Host Computer GW3HC with new rf modems (1 units @ 24.00 hrs each @ \$175.00 /hr = \$4,200.00)</li><li>▪ GenWatch GW3HC CAD link and connection (1 units @ 4.00 hrs each @ \$175.00 /hr = \$700.00)</li><li>▪ GenWatch Host database programming (1 units @ 24.00 hrs each @ \$175.00 /hr = \$4,200.00)</li><li>▪ GenWatch remoted terminal (2 units @ 8.00 hrs each @ \$175.00 /hr = \$2,800.00)</li><li>▪ Install Network equipment for GenWatch remote terminal (1 units @ 32.00 hrs each @ \$175.00 /hr = \$5,600.00)</li><li>▪ GenWatch GW3LE stand alone system (1 units @ 8.00 hrs each @ \$175.00 /hr = \$1,400.00)</li><li>▪ GenWatch GW3LE stand alone system (1 units @ 8.00 hrs each @ \$175.00 /hr = \$1,400.00)</li></ul>	(Vendor) Motorola	\$83,868.00

<ul style="list-style-type: none"><li>▪ GenWatch GW3LE stand alone system (1 units @ 8.00 hrs each @ \$175.00 /hr = \$1,400.00)</li><li>▪ GenWatch GW3LE stand alone system (1 units @ 8.00 hrs each @ \$175.00 /hr = \$1,400.00)</li><li>▪ Replace Palmeto General Hospital BDA filters with 18MHZ filters (1 units @ 4.00 hrs each @ \$175.00 /hr = \$700.00)</li><li>▪ Replace Hialeah Hospital BDA filters with 18MHZ filters (1 units @ 4.00 hrs each @ \$175.00 /hr = \$700.00)</li><li>▪ Replace Palmeto General Hospital BDA filters with 5MHZ filters (1 units @ 4.00 hrs each @ \$175.00 /hr = \$700.00)</li><li>▪ Replace Hialeah Hospital BDA filters with 5MHZ filters (1 units @ 4.00 hrs each @ \$175.00 /hr = \$700.00)</li><li>▪ MSRC - Replace Tower Top Amp filters with 5MHZ filters (BD) (15hrs @ \$175.00 /hr = \$2,625.00)</li><li>▪ MSRC - Replace Tower Top Amp filters with 18MHZ filters (BD) (15hrs @ \$175.00 /hr = \$2,625.00)</li><li>▪ PM - Project Manager (48hrs @ \$175.00 /hr = \$8,400.00)</li><li>▪ SE - System Engineer (28hrs @ \$175.00 /hr = \$4,900.00)</li><li>▪ ST - System Technologist (100hrs @ \$175.00 /hr = \$17,500.00)</li><li>▪ TTS - Tower Top Amp Installations (6hrs @ \$1,728.00 /hr = \$10,368.00)</li></ul>		
<ul style="list-style-type: none"><li>▪ Project Management for infrastructure equipment reconfiguration (56hrs @ \$64.50 /hr = \$3,612.00)</li></ul>	(Incumbent) City of Hialeah	\$3,612.00
<b>b. Infrastructure Equipment Reconfiguration Equipment/Software:</b> <ul style="list-style-type: none"><li>• 6809 28 Ch Controller Code Plug - Model No:UOST-0001 (6 @ \$1,298.00 /Each)</li><li>• CSC Software - Model No:UOST-0004 (3 @ \$1,509.00 /Each)</li><li>• SIP Replacement (GW3-COM-LE1-B - Model No:L3518 (4 @ \$27,455.00 /Each)</li><li>• SIMS II Client (GW3-COM-CL1-B) - Model No:L3516 (3 @ \$42,840.00 /Each)</li><li>• SIMS II Host/Client (GW3-COM-HO1-B) - Model No:L3517 (1 @ \$94,350.00 /Each)</li></ul>	(Vendor) Motorola	\$373,932.00

<ul style="list-style-type: none"><li>• RF MODEM/CLOCKING RADIO 800MHZ 10-15W - Model No:HKUN4033 (2 @ \$1,840.00 /Each)</li><li>• POWER SUPPLY &amp; CBL (1-25 WATT MODELS) - Model No:HPN4008 (2 @ \$187.00 /Each)</li><li>• RADIO SERVICE S/W INSTRUCTION MANUAL - Model No:6881081C15 (1 @ \$17.00 /Each)</li><li>• S2500 ROUTER T1/E1 DAUGHTER BOARD - Model No:ST2512 (4 @ \$720.00 /Each)</li><li>• S2500 MULTIPROTOCOL WAN ROUTER - Model No:ST2500 (2 @ \$2,790.00 /Each)</li><li>• SNAP ON PLUG, RJ-45 PACK OF 10 - Model No:CDN6224 (2 @ \$38.00 /Each)</li><li>• 10 BASE-T PLENUM CABLE 500 FT - Model No:CDN6222 (1 @ \$177.00 /Each)</li><li>• HP PROCURVE SWITCH 2626B - Model No:DSJ4900B (2 @ \$1,800.00 /Each)</li><li>• TX RX Combiner Cables - Model No:DQ9200HIALEAH1 (3 @ \$803.00 /Each)</li><li>• TX RX Combiner Cables - Model No:DQ9200HIALEAH2 (3 @ \$803.00 /Each)</li><li>• 5MHz filter kit for the TTA - Model No:DQ8986A076875 (3 @ \$534.00 /Each)</li><li>• 18MHz filter kit for the TTA - Model No:DQ8986A0768718 (3 @ \$711.00 /Each)</li><li>• 5MHz filter kit for the BDA - Model No:DQ8989A963905</li><li>• 18MHz filter kit for the BDA - Model No:DQ8989A9639018</li><li>• SMARTNET PKG MCS2000 - Model No:H1627A</li><li>• ENH: UPGRADE TO SMARTNET - Model No:Q326 (38 @ \$45.00 /Each)</li><li>• ENH: 150 MODE CAPABILITY - Model No:H259 (38 @ \$60.00 /Each)</li></ul>		
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<b>III. Engineering and Verification</b> <ul style="list-style-type: none"><li>▪ FSO - Pre Rebanding Benchmark Testing (24hrs @ \$175.00 /hr = \$4,200.00)</li><li>▪ FSO - Post Rebanding Acceptance Testing (24hrs @ \$175.00 /hr = \$4,200.00)</li><li>▪ MSRC - Functional Testing (8hrs @ \$175.00 /hr = \$1,400.00)</li><li>▪ Hicaps - Method III Drive Test (144hrs @ \$175.00 /hr = \$25,200.00)</li><li>▪ MSS - Voyager Testing Equipment Deployment (2hrs @ \$3,030.00 /hr = \$6,060.00)</li><li>▪ PM - Project Manager (20hrs @ \$175.00 /hr = \$3,500.00)</li><li>▪ SE - System Engineer (10hrs @ \$175.00 /hr = \$1,750.00)</li><li>▪ ST - System Technologist (40hrs @ \$175.00 /hr = \$7,000.00)</li></ul>	(Vendor) Motorola	\$53,310.00
<b>IV. Professional Services</b> <ul style="list-style-type: none"><li>▪ PM - Project Manager (220hrs @ \$175.00 /hr = \$38,500.00)</li><li>▪ SE - System Engineer (84hrs @ \$175.00 /hr = \$14,700.00)</li><li>▪ ST - System Technologist (96hrs @ \$175.00 /hr = \$16,800.00)</li><li>▪ TE - Travel (1 @ \$80,503.50 /unit = \$80,503.50)</li></ul>	(Vendor) Motorola	\$150,503.50
<b>V Contracts and Legal</b> <ul style="list-style-type: none"><li>▪ Leibowitz &amp; Associates - Legal Fees to Negotiate FRA (43hrs @ \$325.00 /hr = \$14,000.00)</li></ul>	(Vendor) Leibowitz & Associates	\$14,000.00
<b>City of Hialeah</b>	<b>Incumbent</b>	<b>\$72,530.25</b>
<b>Motorola</b>	<b>Vendor</b>	<b>\$997,117.50</b>
<b>EFJ</b>	<b>Vendor</b>	<b>\$12,145.50</b>
<b>Leibowitz &amp; Associates</b>	<b>Vendor</b>	<b>\$14,000.00</b>
<b>Total Estimated Costs</b>		<b>\$1,095,793.25</b>

**Certification**

Pursuant to the Order, Incumbent hereby certifies to the Transition Administrator appointed pursuant to the Order that the funds requested above are the minimum necessary to provide Incumbent reconfigured facilities comparable to those presently in use in a manner that is reasonable, prudent and timely. Incumbent further certifies, to the best of Incumbent's knowledge, that any Vendor costs identified on the Schedule C are comparable to costs previously charged by each such Vendor to Incumbent.

Signature: \_\_\_\_\_  
Print Name: \_\_\_\_\_  
Title: \_\_\_\_\_  
Phone Number: \_\_\_\_\_  
E-mail: \_\_\_\_\_  
Date: \_\_\_\_\_

**SCHEDULE D**

**1) Loaned Reconfiguration Equipment (provided by Nextel)**

**[Reserved]**

**2) Nextel Replacement Equipment (provided by Nextel)**

Quantity	Manufacturer	Description	Model Number	New/Used
13	EFJ	EFJ 5300 Dash Mount Radio	242-537G-001AAYB6	New
13	EFJ	SmartNet Operation	299-RBOM-001	New
2	EFJ	EFJ 5100 Model 3 Portable Radio, Battery	242-5173-810YY5	New
2	EFJ	SmartNet Operation	299-RBOP-001	New
1	EFJ	External Speaker	250-0151-006	New
2	EFJ	Single Bay Charger	250-5100-210	New
46	SmartNet	MTS2000 II Portable Radio (each with 512K memory) 4 units are spares and SN will not receive returned radios for these.	MTS2000 (512k)	Used
17	SmartNet	MTS2000 III Portable Radio (each with 512K memory) 2 units are spares and SN will not receive returned radios for these.	MTS2000 (512k)	Used
63		Included Std Whip Antenna		Used
63		Included Std Belt Clip		Used
63		Included Standard Battery		Used
63		Analog Smartnet (H37)		Used
63		Remote Monitor		Used
6		Spare Battery		Used
6		Single Unit Rapid Charger		Used
2		5MHz filter kit for the BDA	DQ8989A963905	
2		18MHz filter kit for the BDA	DQ8989A9639018	

**3) Nextel Replaced Equipment (to be delivered to Nextel prior to the Reconciliation Date)**

Quantity	Manufacturer	Description	Model Number
13	EFJ	EFJ 9883 Dash Mount Mobile Radios with Emergency Footswitch Interface, SmartNet Operation	242-9883-302
2	EFJ	EFJ 7780 Model 3 Portable Radio	242-7780-303
13	EFJ	9883 External Speaker	
2	EFJ	7780 Single Bay Charger	
42	SmartNet	MTS2000 II Portable Radio (each with 256K memory, antenna and at least one battery)	MTS2000 II (256K)

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Quantity	Manufacturer	Description	Model Number
15	SmartNet	MTS2000 III Portable Radio (each with 256K memory, antenna and at least one battery)	MTS2000 III (256K)
3		CSC Software	UOST-0004
4		SIP Package	
3		SIMS II Client Package	
1		SIMS II Host/Client Package	
2		RF MODEM/CLOCKING RADIO 800MHZ 10-15W	
2		POWER SUPPLY & CBL (1-25 WATT MODELS)	
4		S2500 ROUTER T1/E1 DAUGHTER BOARD	
2		S2500 MULTIPROTOCOL WAN ROUTER	
2		HP PROCURVE SWITCH 2626B	
2		5MHz filter for BDA	
2		18MHz filter for BDA	

**4) Motorola Schedule D Equipment (to be provided by Motorola) – Motorola radios and flash- kits and accessories only**

a) Motorola Subscriber Services will be provided for the following Motorola Schedule D Equipment

Quantity	Description	Radio Software	Encryption	Model Number
129	XTS5000 Portable Radio Model II 800 MHz	SmartNet		H18UCF9PW6 N
23	XTS2500 RB III Portable Radio Kit	SmartNet		XTS2500 RB III
23	IP67 Immersible Option			QA00211AA
23	IMPRES BATTERY FM NIMH IMMERSIBLE 2000 MAH			Q3933 SUBM
23	Spare Battery			NNTN6263
129	Analog Operation			Q241
129	Smartnet Software			H37
129	Single Unit Rapid Charger			NTN1873
30	Vehicular Adapter - Open Face BNC			N2002
30	Next Generation Mobile Microphone			Q760
30	Audio PA and Speaker with Cable			Q147
30	800 MHz RF PA (806-870 MHz) 15W.			NLF1258
129	RF Adaptor Switch			NTN8327
129	3db Antenna			HAF4017
129	BATTERY NICAD FM 1525MAH RUGGED (NTN8297)			H223RUGD

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Quantity	Description	Radio Software	Encryption	Model Number
129	SUBMERSIBLE - 6 FT. 2 HOURS (RUGGED) H499 721			H499
129	Impress smart rugg NIHM 2000MAH			NNTN4437B
29	Speaker Microphones for the XTS5000			NMN6247
29	XTL2500 RB Mobile Radio Kit, Dash	SmartNet		XTL2500 RB
40	XTL5000 Mobile Radio 800 MHz	SmartNet		M20URS9PW1AN
46	XTL5000 Consolette 800MHz	SmartNet		L20URS9PW1AN
40	Antenna - 1/4 wave			G335
27	Palm Microphone - Motorcycle			W22AT
13	Palm Microphone			W22
46	No Microphone Needed			G90
46	O5 Control Head			G442
46	O5 Control Head Software			G444
27	XTL Motorcycle Control Head Software			G138
27	Motorcycle Mounting			G67MTCL
13	W9 Control Head			G81
27	Motorcycle Control Head W7			G84
13	W9 Control Head Software			G99
13	Remote Mount			G67
13	Loud Speaker - 7.5 Watt			B18
27	Loud Speaker - 7.5 Watt - Motorcycle			B18CM
46	Omit Speaker			G142
86	Analog Operation			G241
86	SmartNet Operation			G50
86	Enh ID Display			G114
27	No Motorcycle enclosure needed			W620
13	Dual Control Head W9			W800
13	Remote Mount Cable - 30 ft			G610
20	Basic Audio Control Interface Board			L791
26	Tone Remote Interface Board			L146
20	Digital Junction Box - Consolette			L3208
22	MC3000 Digital Deskset			L3223
13	Palm Microphone (W7 or W9)			G833
18	Desktop Microphone			W382

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b) Motorola Subscriber Services will not be provided for the following Motorola Schedule D Equipment

Quantity	Description	Radio Software	Encryption	Model Number
1215	FlashKit	SmartNet		FlashKit

**5) Motorola Replaced Equipment (to be delivered to Motorola)**

Quantity	Description	Radio Software	Encryption	Mounting	Model Number
129	MTS2000 I Portable Radio (each with 512K memory, antenna, at least one FM battery and charger)	SmartNet			MTS2000 I (512K)
23	MTS2000 I Portable Radio (each with 512K memory, antenna and at least one FM battery)	SmartNet			MTS2000 I (512K)
30	Vehicular Adapter - Open Face BNC (from MTS2000 converta-com)				
30	Next Generation Mobile Microphone (from MTS2000 converta-com)				
30	Audio PA and Speaker with Cable (from MTS2000 converta-com)				
30	800 MHz RFPA (806-870 MHz) 15W. (from MTS2000 converta-com)				
129	RF Adaptor Switch (converta com ready option from MTS2000)				
129	3db Antenna (converta com ready option from MTS2000)				
129	BATTERY NICAD FM 1525MAH RUGGED – battery (converta com ready option from MTS2000)				
129	Impress smart rugg NIHM 2000MAH - Spare battery (converta com ready option from MTS2000)				
29	Speaker Microphones for MTS2000				
25	Spectra Mobile Radio (each with C2 control head and mic)	SmartNet		Dash	Spectra
4	Spectra Mobile Radio (each with C5 control head and mic)	SmartNet		Dash	Spectra
27	Spectra Motorcycle (each with C7 control head and mic)	SmartNet		Motorcycle	Spectra
13	Spectra Mobile Radio (each with C9 control head and mic)	SmartNet		Remote	Spectra
26	Spectra Consolette (each with control head and tone remote interface board)	SmartNet			Spectra

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<b>Quantity</b>	<b>Description</b>	<b>Radio Software</b>	<b>Encryption</b>	<b>Mounting</b>	<b>Model Number</b>
20	Spectra Consolette (each with control head and basic audio control interface board)	SmartNet			Spectra
20	Digital Junction Box - Consolette				
22	DGT9000 Digital Deskset				
13	Palm Microphone				
18	Desktop Microphone				

**SCHEDULE E****Product Typical Values****(1) Motorola Equipment**

<b>Item</b>	<b>Rebanding Product Typical Value (% are discount off list price)</b>
Mobile, High Spec (XTL2500 RB)	\$ 2,050
<b>Accessories &amp; Options</b>	
SmartZone Operation	\$ 162
Digital Operation	\$ 234
Siren	\$ 637
Consollette Power Kit	\$ 500
Consollette Tone Remote	\$ 475
DTMF Microphone	\$ 180
DEK	\$ 475
Extra Loud Speaker	\$ 106
Dual Control Head	\$ 575
Dual Control Head Mic	\$ 80
Dual Control Head Cable	\$ 95
Dual Control Head Speaker	\$ 60
Multi-Radio SW Kit	\$ 750
Multi-Radio HW Kit	\$ 1,750
Emergency foot pedal	\$ 55
AUXILIARY SWITCH PANEL	\$ 165
Mobile UCM	\$ 750
Key Lock Mounting	\$ 40

<b>Item</b>	<b>Rebanding Product Typical Value (% are discount off list price)</b>
Mobile, Low Spec (XTL1500 RB)	\$ 1,516
<b>Accessories &amp; Options</b>	
SmartZone Operation	\$ 58
Digital Operation	\$ 72
Extra Loud Speaker	\$ 106
Emergency foot pedal	\$ 55
AUXILIARY SWITCH PANEL	\$ 165
Key Lock Mounting	\$ 40

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Item	Rebanding Product Typical Value (% are discount off list price)
Mobile (XTL5000)	18%
<b>Accessories &amp; Options</b>	
XTL5000 Options	18%
Motorcycle Mounting	\$ 400
Motorcycle Housing	\$ 900

Item	Rebanding Product Typical Value
Portable, High Spec (XTS2500 III RB)	\$ 2,375.00
<b>Accessories &amp; Options</b>	
SmartZone Operation	\$ 200
Digital Operation	\$ 400
Upgrade Both Kit Batteries to HICAP	\$ 140
Spare Battery HICAP	\$ 145
Portable Cables	\$ 251
Carry Case	\$ 60
Charger	\$ 165
PSM	\$ 150
RF Switch	\$ 140
RSM	\$ 97
Headset	\$ 439
Programming Software	\$ 265
Vehicular Charger	\$ 95
Portable UCM	\$ 750
Multi-unit Charger	\$ 788

Item	Rebanding Product Typical Value
Portable, Low Spec (XTS1500 I RB)	\$ 1,120
<b>Accessories &amp; Options</b>	
SmartZone Operation	\$ 150
Digital Operation	\$ 130
Upgrade Both Kit Batteries to HICAP	\$ 140
Spare Battery HICAP	\$ 145
Portable Cables	\$ 251
Carry Case	\$ 60
Charger	\$ 165
RSM	\$ 97
Headset	\$ 439
Programming Software	\$ 265
Vehicular Charger	\$ 95
Multi-unit Charger	\$ 788

Item	Rebanding Product Typical Value (% are discount off list price)
Portable, XTS5000	18%
Portable, XTS2500	18%
Mobile, XTL2500	18%
Item	Rebanding Product Typical Value (% are discount off list price)
<b>Accessories &amp; Options</b>	
All accessories not listed above	5%

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**(2) Nextel Replacement Equipment**

The Product Typical Values for Nextel Replacement Equipment shall be:

- a. for Nextel Replacement Equipment set forth on Schedule C, the cost shown on Schedule C for the item of Nextel Replacement Equipment; or
- b. for Nextel Replacement Equipment comprising EFJohnson 5100 & 5300 series radios and associated accessories, the most recent list price as of the date a reconciliation statement is sent to Incumbent by Nextel, less 25%.

**Exhibit A**

**Incumbent Information**

*The following questions are required for processing Electronic Funds Transfers and if Incumbent wants Nextel to complete the FCC filings on its behalf. All information contained herein shall be kept strictly confidential and will be used only in completion of the Frequency Reconfiguration transaction.*

**I. INCUMBENT INFORMATION**

*Please provide the following information:*

Company/Name: \_\_\_\_\_

Contact: \_\_\_\_\_ Title: \_\_\_\_\_

Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Email: \_\_\_\_\_

Check Appropriate Box: ☐ Individual/Sole Proprietor ☐ Corporation ☐ Partnership  
☐ Other \_\_\_\_\_

**II. BANK ACCOUNT INFORMATION (Required for payment processing.)**

Please select preferred payment method: ☐ Wire Transfer ☐ ACH ☐ Check

Name of Bank: \_\_\_\_\_

Address of Bank: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Bank Phone #: \_\_\_\_\_

ABA (Routing #): \_\_\_\_\_

Account #: \_\_\_\_\_

Name on Account: \_\_\_\_\_

Federal, State or Individual SS #: \_\_\_\_\_

Name of Brokerage Firm (if applicable): \_\_\_\_\_

Brokerage Account # (if applicable): \_\_\_\_\_

***In the event Incumbent will not provide information for Wire Transfer or ACH, Incumbent acknowledges that all payments will be made by check.***

**Acknowledged by Incumbent: \_\_\_\_\_  
(signature required only if Incumbent does not want an electronic funds transfer)**

**III. TAX INFORMATION**

The Internal Revenue Service and state tax authorities require Nextel to report all transactions, even if the transaction is exempt from taxation (if so, it will be reported to the IRS as a like-kind exchange). Therefore, it is necessary for Nextel to collect the information below. If you have specific questions about your tax implications in this transaction, you should consult your own accountant or financial advisor.

Incumbent's Federal or Individual Tax ID #, FEIN  
(Federal) or SSN (individuals): \_\_\_\_\_

State(s) – sales tax license, resale permit,  
employment, etc.): \_\_\_\_\_

Local (if applicable): \_\_\_\_\_

Current State and County location for your  
principal executive office: \_\_\_\_\_

If there has been more than one location for the  
principal executive office within the past five (5)  
years, list each such City/County/State location: \_\_\_\_\_  
\_\_\_\_\_

**IV. FINANCIAL RECONCILIATION CONTACT INFORMATION (indicate one)**

A. Check here if *same* as indicated in Item I above \_\_\_\_\_

B. Fill in below if *different* from Item I above as follows:

**Financial Contact Name:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**City/State/Zip:** \_\_\_\_\_

**Phone:** \_\_\_\_\_ **Fax:** \_\_\_\_\_

**Email:** \_\_\_\_\_

**V. REGULATORY INFORMATION**

**Would you like Nextel's Regulatory department to prepare and file all necessary FCC paperwork on your behalf?**                      **Yes     /     No**

***If yes***, please provide the following **Universal Licensing System ("ULS")** information for your licenses:

**FRN (FCC Registration Number):** \_\_\_\_\_

**ULS PASSWORD:** \_\_\_\_\_

**Contact Representative for any FCC related issues:**

**Name:** \_\_\_\_\_

**Phone Number:** \_\_\_\_\_

***If no***, please provide the following information regarding who will take care of the preparation and filing of all necessary FCC paperwork on your behalf:

**Contact Name:** \_\_\_\_\_

**Organization:** \_\_\_\_\_

**Address:** \_\_\_\_\_

**City:** \_\_\_\_\_

**State/Zip:** \_\_\_\_\_

**Phone Number:** \_\_\_\_\_

**Email Address:** \_\_\_\_\_

***I hereby acknowledge that all of the information provided herein is true and correct as of the date signed below.***

***Incumbent Signature:*** \_\_\_\_\_

***Print Name:*** \_\_\_\_\_

***Title:*** \_\_\_\_\_

***Date:*** \_\_\_\_\_

**EXHIBIT B**

**Reconciliation Documentation**

**Certification of Labor**

Incumbent hereby certifies that the internal labor information provided under the Agreement is true and complete to the best of Incumbent's knowledge. Incumbent further certifies that the the number of planning and reconfiguration tasks that the Incumbent performed using internal labor for each labor category on the TA-approved Cost Estimate (as that term is defined in the Agreement) ("Units") and/or the number of internal labor hours incurred in performing planning and reconfiguration tasks for each labor category on the TA-approved Cost Estimate ("Hours") were for 800 MHz Reconfiguration and have been documented in accordance with the TA's policy on Incumbent Labor at <http://www.800ta.org/content/PDF/policy/IncumbentLaborRatePolicy.pdf> as of the date of this statement. Incumbent acknowledges that the reconciliation documentation and related supporting records for the Agreement are subject to the TA's Review Rights (as that term is defined in the Agreement).

Incumbent Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

## Time Sheet Documentation

DEAL ID

DEAL NAME

Name	Description of Activities	Actual Hours Worked	Actual Hourly Rate \$	Benefit Load \$ (if applicable)	Total Cost \$
				Total	

### Certification

Incumbent hereby certifies that the internal labor information provided under the Agreement is true and complete to the best of Incumbent's knowledge. Incumbent further certifies that the number of planning and reconfiguration tasks that the Incumbent performed using internal labor for each labor category on the TA-approved Cost Estimate (as that term is defined in the Agreement) ("Units") and/or the number of internal labor hours incurred in performing planning and reconfiguration tasks for each labor category on the TA-approved Cost Estimate ("Hours") were for 800 MHz Reconfiguration and have been documented in accordance with the TA's policy on Incumbent Labor at <http://www.800ta.org/content/PDF/policy/IncumbentLaborRatePolicy.pdf> as of the date of this statement. Incumbent acknowledges that the reconciliation documentation and related supporting records for the Agreement are subject to the TA's Review Rights (as that term is defined in the Agreement).

**\*\* To be completed in lieu of Incumbent Invoice AND Certification of Labor Rates.**

Incumbent Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Name: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

**Exhibit C**  
**City of Hialeah, FL**  
**Motorola SOW and Costs**



**MOTOROLA**

**RECONFIGURATION PROPOSAL  
INCLUDING PLANNING PHASE DELIVERABLES**

The City of Hialeah FL

*SmartNet II Plus, Ten Channel, Three Site,  
Simulcast System*



**MOTOROLA**

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## **1.0 INTRODUCTION**

This document provides the deliverables as described in the *Reconfiguration Planning Statement of Work* as well as the proposal to reconfigure The City of Hialeah FL's radio communications system.

## **2.0 SYSTEM DESCRIPTION**

The City of Hialeah operates a three site, ten channel, SmartNet II Plus analog only Simulcast system. The system's prime site and a collocated remote site are located at the Hialeah Fire Station 1. The other two remote sites are located at the Hialeah Police Dispatch site and the Bucky Dent site. Each transmit site utilizes two transmit antennas, two combiners, one receive antenna, and one tower-top amplifier / receive multi-coupler.

In addition to the simulcast system, the City of Hialeah operates two portable Quantar repeaters for emergency backup. The two backup transmitters use two antennas mounted on the tower and two duplexers. Additionally they have two back-up antennas stored on the ground used for mobile deployment if necessary. The repeaters and antennas are stored at the Bucky Dent site.

The network management system consists of four stand-alone SIP terminals located at the Hialeah Water and sewer, Telecommunications, Fleet, and Solid Waste departments. The city of Hialeah also operate a SIMS II system with one server, one local user terminal at the Hialeah Fire Dispatch, one remote user terminal at the Hialeah Police Dispatch and one dial in modem. The City of Hialeah operates a CENTRACOM II Gold Elite Console System and has two dispatch centers located at the Hialeah Fire Dispatch and Hialeah Police Dispatch. The dispatch centers have six operator positions each. The dispatch consoles are not affected by rebanding. There are 1027 portable radios, 573 mobile radios and 88 MOSCAD radios affiliated with the system.

The City of Hialeah also operates two Bi-Directional Amplifiers located at Hialeah Hospital and Palmetto General Hospital.

## **ASSUMPTIONS**

The City of Hialeah will modify, build and test all subscriber templates. The City of Hialeah will provide all approved templates to vendor performing subscriber reconfiguration on a CD in a manner consistent with the project schedule.

There are 15 E. F. Johnson radios affiliated with the City of Hialeah's radio system. These radios will be excluded from the rebanding effort as they are not owned by the City.

The City of Hialeah has an existing GenWatch III management terminal and it is not included in this rebanding proposal.

Four aircraft radios affiliated with the City of Hialeah's radio system will be excluded from the rebanding effort as they are being rebanded by others.



The City of Hialeah has an existing GEAC CAD system currently interfaced with their existing SIMS. As part of the proposal, Motorola will be replacing the SIMS with a GenWatch III. Motorola will demark the GenWatch III at a mutually agreeable location using an API as specified by Genesis. Hialeah acknowledges that they will address any issues with the interface into their existing GEAC CAD as needed.

Fixed network equipment cutover plan allows up to five channels at a time to be disabled for reconfiguration. Cutover plan also allows reconfiguration to occur at one site at a time at a time specified by the City of Hialeah.

This proposal includes a second retune for 1064 subscribers removing the old conventional channels in Public Safety and Executive Staff radios

This quotation to provide rebanding services to the City of Hialeah is based upon information supplied by the City of Hialeah or those authorized to act on its behalf. Motorola deems this information credible, accurate and current.

Any missing information should be provided to Motorola as soon as possible. Any unconfirmed information should be validated as soon as possible. Inaccurate information could alter or modify the terms of this quotation.

Motorola understands that the City of Hialeah will negotiate directly with Sprint-Nextel for any parts inventory items stocked by the City of Hialeah and its representatives used to maintain their system. Therefore, these items have not been included as part of this proposal.

## **FREQUENCIES**

As provided by The City of Hialeah FL, the following table lists the original transmit and receive (Tx/Rx) frequencies in MHz, and the corresponding post rebanding frequencies as assigned to the customer, listed by site (as they appear in the control channel list):

*(see table on next page)*



Trunking Frequencies, WPCT375 Hialeah Fire Station One, Hialeah PD Dispatch and Bucky Dent site.				
Channel #/ Call Sign	Original		After re-banding	
	Transmit frequency, MHz	Receive frequency, MHz	Transmit frequency, MHz	Receive frequency, MHz
1 / WPCT375	<b>868.8250</b>	<b>823.8250</b>	<b>853.8250</b>	<b>808.8250</b>
2 / WPCT375	<b>868.3250</b>	<b>823.3250</b>	<b>853.3250</b>	<b>808.3250</b>
3 / WPCT375	<b>868.3000</b>	<b>823.3000</b>	<b>853.3000</b>	<b>808.3000</b>
4 / WPCT375	<b>867.8500</b>	<b>822.8500</b>	<b>852.8500</b>	<b>807.8500</b>
5 / WPCT375	<b>867.5875</b>	<b>822.5875</b>	<b>852.5875</b>	<b>807.5875</b>
6 / WPCT375	<b>867.2000</b>	<b>822.2000</b>	<b>852.2000</b>	<b>807.2000</b>
7 / WPCT375	<b>867.1625</b>	<b>822.1625</b>	<b>852.1625</b>	<b>807.1625</b>
8 / WPCT375	<b>866.7875</b>	<b>821.7875</b>	<b>851.7875</b>	<b>806.7875</b>
9 / WPCT375	<b>866.2500</b>	<b>821.2500</b>	<b>851.2500</b>	<b>806.2500</b>
10 / WPCT375	<b>866.1625*</b>	<b>821.1625</b>	<b>851.1625**</b>	<b>806.1625</b>

Notes: Those frequencies impacted by rebanding are marked in bold.

\* Base Station Identifier pre-rebanding – this is not a control channel.

\*\*Base Station Identifier post rebanding - will not cause a change in the control channel list.

## FIXED NETWORK EQUIPMENT

Motorola collected detail on the fixed network equipment. Highlights of the inventory gathered at each site are as follows:

### Hialeah Fire Station 1 Site

Main Controller	6809 SmartNet II Plus
Alternate Controller	6809 SmartNet II Plus
Remote Controller	6809 SmartNet II Plus
Base Station	Quantar Non-IR T5365A
Transmit Combiner #1	TX RX 73-90-11-2C-05
Transmit Combiner #2	TX RX 73-90-11-2C-05
Transmit Antenna #1	Celwave BMR8H
Transmit Antenna #2	Celwave BMR8H
Receive Antenna	Celwave PD10017-1
Tower Top Amplifier	TX RX 42-86A-08-05-117
Receive Multicoupler	TX RX 42-86A-32-12-117

### Hialeah PD Dispatch Site

Remote Controller	6809 SmartNet II Plus
Base Station	Quantar Non-IR T5365A
Transmit Combiner #1	TX RX 73-90-11-2C-05
Transmit Combiner #2	TX RX 73-90-11-2C-05
Transmit Antenna #1	Celwave BMR8A
Transmit Antenna #2	Celwave BMR8A
Receive Antenna	Celwave PD10017-1



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Tower Top Amplifier	TX RX 42-86A-08-05-117
Receive Multicoupler	TX RX 42-86A-32-12-117

Bucky Dent Site

Remote Controller	6809 SmartNet II Plus
Base Station	Quantar Non-IR T5365A
Transmit Combiner #1	TX RX 73-90-11-2C-05
Transmit Combiner #2	TX RX 73-90-11-2C-05
Duplexer#1	Celwave 5134-10BK
Duplexer#2	Celwave 5134-10BK
Transmit Antenna #1	Celwave BMR8A
Transmit Antenna #2	Celwave BMR8A
Antenna #3	Decibel DB586
Antenna #4	Decibel DB586
Antenna #5	Antenex FG8066
Antenna #6	Antenex FG8066
Receive Antenna	Celwave PD10017-1
Tower Top Amplifier	TX RX 42-86A-08-05-117
Receive Multicoupler	TX RX 42-86A-32-12-117

Hialeah Hospital

Bi-Directional Amplifier	TX RX 61-89A-03-OLC-G1
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Palmetto General Hospital

Bi-Directional Amplifier	TX RX 61-89A-03-OLC-G1
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### 3.0 INTERMODULATION STUDY (IM)

Intermodulation (IM) products are generated whenever two or more transmit frequencies mix together. If there is more than one transmitting frequency at a site, an IM analysis is necessary to check for possible IM interference problems. This IM study has been performed to predict IM products that could be generated as a specific result of adding the newly proposed frequencies as listed in the Transition Administrators Frequency Proposal Report (FPR), to the existing sites. Please see the complete *Intermodulation Study*; Attachment A.

### 4.0 SYSTEM INVENTORY AND SUITABILITY ASSESSMENT

Motorola completed detailed audits of the customer's system inventory and a *Suitability Assessment Impact Report (SAIR)* has been produced based on that data collection. The proposed rebanding operation is based on specific impacts anticipated for this system and all of its components. Specifically the report indicates whether each of these system components may be easily retuned, whether they first require reprogramming to allow retuning, or whether they must be replaced to accomplish the migration to the new frequencies prescribed in the FCC order. Please review the *Suitability Assessment Impact Report*; Attachment B.



### **5.0 INTEROPERABILITY**

The City of Hialeah has indicated interoperability requirements with the City of Miami and the City of Miami Beach for this trunked radio system. Each will incorporate the City of Hialeah's post rebanding frequency plans during their respective rebanding projects. If the City of Miami or the City of Miami Beach is not rebanded at the same time as the City of Hialeah is rebanded, interoperability will be lost and an additional reprogramming/retuning will be required. If this additional step is required it will result in additional cost not covered by this proposal.

### **6.0 IMPLEMENTATION PLAN FOR SYSTEM RECONFIGURATION**

The following information provides an overview of how the City of Hialeah FL system rebanding plan will be implemented and how those activities will impact the fixed network equipment and subscriber units. Additional details may also be found in Attachment B.

Motorola has produced Baseline and Acceptance Test Plans to demonstrate comparable operation before and after reconfiguration. Please see the attached *Functional Acceptance Test Procedures* and *RF Performance Verification Plan*; Attachments C and D.

Motorola has also produced a Reconfiguration Design consisting of Method of Procedures (MOP). Motorola developed the MOP which details the process steps, timeline, measurable deliverables, resources needed and cutover steps. The MOP also includes the *Cutover and Fall Back Plan* outlining the transition from the current frequencies to the new ones. The Cutover and Fall Back plans ensure consistent operation of all system functionality throughout the rebanding reconfiguration. Please see *Cutover and Fall Back Plan* in Attachment E.

### **IMPACT ON SUBSCRIBERS**

Motorola has carefully analyzed the Subscriber and Fixed Network Equipment (FNE) inventory data. The Suitability Assessment results dictate the actions in *Subscriber Impact Table 1* be taken with regard to subscribers.

*(see tables on following page)*

**Table 1 - Subscribers Impact per SAIR**

Subscriber Model	Action	Qty	Replacement Radio
MTS2000 Model II 256K	Replace	42	XTS2500RB
MTS2000 Model III 256K	Replace	15	XTS2500RB
Spectra Dash Mount, C2	Replace	25	XTL2500RB
Spectra Dash Mount, C5	Replace	4	XTL2500RB
Spectra Motorcycle Mount	Replace	27	XTL5000 Motorcycle Mount
Spectra C9 Dual Head	Replace	13	XTL5000 Dual Head
Spectra Console, Tone Control	Replace	26	XTL5000 Console
Spectra Console, DGT9000 Control	Replace	20	XTL5000 Console
MTS2000 Model I, Fire Dept.	Reprogram	129	n/a
MTS2000 Model I, Police Dept. (300 Converta-Coms)	Reprogram	425	n/a
MTS2000 Model I, Police Dept. (FRED)	Reprogram	29	n/a
MTS2000 Model I	Reprogram	140	n/a
MTS2000 Model II, Police Dept.	Reprogram	20	n/a
MTS2000 Model II	Reprogram	8	n/a
MTS2000 Model III, Police Dept	Reprogram	10	n/a
MTS2000 Model III	Reprogram	55	n/a
XTS1500	Reprogram	7	n/a
XTS2500	Reprogram	24	n/a
XTS5000	Reprogram	19	n/a
Astro Spectra	Reprogram	24	n/a
MCS2000 Model I, Public Safety, 48 Mode	Reprogram	38	n/a
MCS2000 Model I	Reprogram	257	n/a
MCS2000 Model II	Reprogram	17	n/a
XTL5000	Reprogram	11	n/a
Astro Spectra Plus Console	Reprogram	1	n/a
XTL5000 Console	Reprogram	2	n/a
XTS1500	Retune	17	n/a
XTS2500	Retune	43	n/a
XTS5000	Retune	44	n/a
XTL1500	Retune	3	n/a
XTL2500	Retune	96	n/a
XTL5000	Retune	6	n/a
XTL5000 Console	Retune	3	n/a
<b>Total Subscribers</b>		<b>1600</b>	

**MOSCAD Units**

Subscriber Model	Action	Qty	Replacement Radio
MCS2000	Reprogram	2	n/a
MTS2000 Model I	Reprogram	86	n/a
<b>Total MOSCAD Units</b>		<b>88</b>	

**Definitions**

**Retune:** Update the channel frequencies via the Customer Programming Software/Radio Service Software.  
**Replace:** Cannot be updated to support new frequencies or band plans. A new radio is required.  
**Reprogram:** Update operating software via software FLASH with new frequencies & band plan. Any reprogramming activity requires flashing. After applying flash, program the radio with the new frequency.



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The City of Hialeah requests the following actions be taken in addition to what the SAIR indicates (See *Subscriber Impact Table 2* below):

<i>Table 2 - Subscribers Impact per City of Hialeah</i>			
Subscriber Model	Action	Qty	Replacement Radio
Spectra Dash Mount, C2	Replace	25	XTL2500RB
Spectra Dash Mount, C5	Replace	4	XTL2500RB
Spectra Motorcycle Mount	Replace	27	XTL5000 Motorcycle Mount
Spectra C9 Dual Head	Replace	13	XTL5000 Dual Head
Spectra Console, Tone Control	Replace	26	XTL5000 Console
Spectra Console, DGT9000 Control	Replace	20	XTL5000 Console
MTS2000 Model I, Fire Dept.	Replace	129	XTS5000 intrinsic safe
MTS2000 Model I, Police Dept.	Replace	23	XTS2500RB
MTS2000 Model I, Police Dept. (FRED)	Reprogram	29	n/a
MTS2000 Model I, Police Dept. (300 of the 425 include the Converta-Coms option)	Reprogram	425	n/a
MTS2000 Model I	Reprogram	117	n/a
MTS2000 Model II, Police Dept.	Reprogram	20	n/a
MTS2000 Model II	Reprogram	8	n/a
MTS2000 Model III, Police Dept	Reprogram	10	n/a
MTS2000 Model III	Reprogram	55	n/a
XTS1500	Reprogram	7	n/a
XTS2500	Reprogram	24	n/a
XTS5000	Reprogram	19	n/a
Astro Spectra	Reprogram	24	n/a
MCS2000 Model I, Public Safety, 48 Mode	Reprogram	38	n/a
MCS2000 Model I	Reprogram	257	n/a
MCS2000 Model II	Reprogram	17	n/a
XTL5000	Reprogram	11	n/a
Astro Spectra Plus Console	Reprogram	1	n/a
XTL5000 Console	Reprogram	2	n/a
XTS1500	Retune	17	n/a
XTS2500	Retune	43	n/a
XTS5000	Retune	44	n/a
XTL1500	Retune	3	n/a
XTL2500	Retune	96	n/a
XTL5000	Retune	6	n/a
XTL5000 Console	Retune	3	n/a
MTS2000 Model II 256K	Replace	42	MTS2000 - Supplied by Sprint-Nextel
MTS2000 Model III 256K	Replace	15	MTS2000 - Supplied by Sprint-Nextel
Spare radios supplied by Sprint-Nextel	Replace	6	MTS2000 - Supplied by Sprint-Nextel
<b>Total Subscribers</b>		<b>1606</b>	

<b>MOSCAD Units</b>			
Subscriber Model	Action	Qty	Replacement Radio
MCS2000	Reprogram	2	n/a
MTS2000 Model I	Reprogram	86	n/a
<b>Total MOSCAD Units</b>		<b>88</b>	

#### Definitions

- Retune:** Update the channel frequencies via the Customer Programming Software/Radio Service Software.
- Replace:** Cannot be updated to support new frequencies or band plans. A new radio is required.
- Reprogram:** Update operating software via software FLASH with new frequencies & band plan. Any reprogramming activity requires flashing. After applying flash, program the radio with the new frequency.



Once the subscribers have been programmed to work on the new frequencies and the infrastructure has been successfully rebanded, those subscribers that have the old conventional and Mutual-Aid frequencies will be programmed again to remove the old conventional and Mutual-Aid frequencies. This task must be done as part of this project and immediately after it has been determined that the rebanding effort has been successful.

## **IMPACT ON FIXED NETWORK EQUIPMENT**

**Main Controllers** - Motorola will apply its new rebanding software to the trunking controllers, replace its code plug to include the rebanding replacement frequencies, and remove original frequencies.

**Alternate Controllers** - Motorola will apply its new rebanding software to the trunking controllers, replace its code plug to include the rebanding replacement frequencies, and remove original frequencies.

**Remote Controllers** - Motorola has determined that the electrical characteristics of this device are sufficient to meet the operational needs required for rebanding.

**Quantar Base Stations** - Motorola will interface each station's programming port with a computer running the proper Radio Service Software (CPS/RSS), replacing the old transmit/receive frequencies with the new frequencies.

**Bird Technologies / TX RX Transmit Combiners** – Motorola will retune all TX RX transmit combiners to the new frequencies.

**Celwave Duplexer** – Motorola will retune all Celwave duplexers to the new frequencies.

**Transmit and Receive Antennas** - Motorola has determined that the electrical characteristics of these devices are sufficient to meet the operational needs required for rebanding. Motorola shall not perform any modifications to this antenna system.

**Bird Technologies / TX RX Tower Top Amplifier** - Motorola will replace the filters in the TX RX Tower Top amplifier filters to pass the new frequencies.

**Bird Technologies / TX RX Receive Multicoupler** - Motorola has determined that the electrical characteristics of these devices are sufficient to meet the operational needs required for rebanding. Motorola shall not perform any modifications to the multicoupler.

**SIMS** – Motorola will replace the SIMS system with a GenWatch3 system.

**SIP** – Motorola will replace the SIP system with a GenWatch3 system.

**Bird Technologies / TX RX Bidirectional Amplifiers** – Motorola will replace the filters in the TX RX Bidirectional amplifiers to pass the new frequencies.



## **7.0 MOTOROLA PROFESSIONAL SERVICES**

### **MOTOROLA PROJECT MANAGER (PM):**

The Motorola PM will oversee the activities for each stage of the rebanding effort to ensure a smooth execution of all deliverables and that the requirements of The City of Hialeah FL's system are fully met. The Project Manager will coordinate with The City of Hialeah FL's, System Manager and any subcontractor or other third-party organization participating in this work; to keep this effort within the schedule to be agreed upon and finalized at the kick-off meeting.

During the rebanding of all affected equipment, a representative from The City of Hialeah FL will serve as a single point of contact for Motorola. Assuming no unanticipated delays, the project is estimated to be completed 199 work days from Notice to Proceed. A work day is defined as 8:00 AM to 5:00 PM, Monday through Friday unless specified below.

The fixed network equipment reconfiguration that will impact channel capacity will be conducted between 10:00 PM and 6:00 AM from Sunday night through Friday morning.

### **Motorola Project Manager - Project Administration Activities:**

1. Generate preliminary Project Schedule
2. Provide Project Schedule status updates
3. Manage project SOW and change orders
4. Reconcile Equipment Lists to the contract
5. Arrange equipment inventory process and logistics
6. Provide contract administration
7. Provide project resource management
8. Assure proper archiving of project information
9. Provide Customer and project team communications management
10. Assure project level deliverables
11. Coordinate and chair customer meetings
12. Generate written reports as required
13. Maintain and facilitate resolution of general system punch list items

### **Motorola Project Manager – Infrastructure**

1. Coordinate and direct internal and external project resources
2. Manage infrastructure equipment rebanding and assure documentation of deliverables
3. Maintain and facilitate resolution of infrastructure punch list items

### **Motorola Project Manager – Infrastructure Test Plans**

1. Manage overall infrastructure test plans and execution
2. Manage *punch list* of issues to be resolved
3. Facilitate acceptance test plan completion and documentation



**Motorola Project Manager - Subscriber Programming Activities:**

1. Facilitate Customer meetings to determine information for programming templates
2. Obtain Customer Approved programming templates prior to initiating programming
3. Plan and manage delivery of reprogrammed or replaced subscriber units for all required departments and agencies
4. Plan and manage subscriber unit collection and return of replaced radios & accessories
5. Manage subscriber equipment rebanding and assure documentation of deliverables
6. Maintain and facilitate resolution of subscriber *punch list* items

**MOTOROLA SYSTEMS ENGINEER (SE):**

The Motorola Systems Engineer has the responsibility for system design and technical performance. The Motorola Engineer will be responsible for “as is” coverage evaluation, post rebanding comparative analysis and intermodulation studies, order write up, Acceptance Test Plan (ATP) development, and system programming parameters. Additionally, the Motorola Systems Engineer will participate in the planning process and will be available to assist the customer in fleet mapping and determining the subscriber unit configurations. The Motorola Systems Engineer will perform the following activities:

**Motorola System Engineer - Project Administration Activities:**

1. Validate system design specifications in accordance with customer needs.
2. Validate and obtain customer approval for a preliminary *Cutover Plan*.
3. Validate preliminary equipment lists.
4. Validate equipment orders for Motorola and 3rd party equipment to accommodate inventory shipping schedules.
5. Validate equipment lists by model, versions, and options.
6. Validate the Customer Requirements Test and Verification Matrix.
7. Perform an As-Found Frequency Planning/Interference Analysis.

**Motorola System Engineer – Infrastructure**

1. Provide technical design for 3rd party interfaces.

**Motorola System Engineer - Subscriber Programming Activities:**

1. Assess Equipment Suitability and Resolve Issues

**MOTOROLA SYSTEMS TECHNOLOGIST (ST):**

The Motorola Systems Technologist is highly experienced and trained, specializing in the optimization and trouble shooting of two-way RF communication systems. The ST will perform the optimization process working with service technicians. Additionally, this individual will work with the Motorola Systems Engineer and the customer representative to determine the best configuration and programming of the system parameters. The Motorola Systems Technologist will perform the following activities:



**Motorola Systems Technologist – Infrastructure**

1. Confirm system configuration and software compatibility to the existing system.
2. Oversee execution of antenna network compatibility checks/optimization.
3. Oversee loading of rebanding firmware/software into system controller(s).
4. Supervise completion of the reprogramming of all RF equipment.
5. Supervise the power up and programming of all rebanded FNE.
6. Oversee upgrades to affected third party FNE.
7. Oversee RF optimization to meet design specifications.

**Motorola Systems Technologist – Infrastructure Test Plans**

1. Oversee site and system level testing.
2. Supervise execution of the Functional Acceptance Test Plan per Attachment C.

**Motorola Systems Technologist - Subscriber Programming Activities:**

1. Validate "as built" documentation.
2. Provide ownership of technical issues.

**Motorola Responsibilities**

Motorola will:

1. Schedule a project kick off meeting with The City of Hialeah FL at the project's start.
2. Execute the project contract deliverables and coordinate ensuing project activities with appropriate Motorola and The City of Hialeah FL resources.
3. After project kick-off, Motorola will provide The City of Hialeah FL with preliminary schedule and progress updates (see *Project Schedule*; Attachment F). This schedule will outline a cutover plan used during the reconfiguration process to ensure disruptions are minimized. The schedule should reflect the following;
  - a. Timeline of events, and
  - b. Identified deliverables
4. Return all of the replaced subscriber radios and related accessories to Motorola within 30 days of the new subscriber radios and accessories being shipped. This same process will be followed for any applicable fixed equipment being replaced. (See Attachment G; *Equipment Return Process*).

**The City of Hialeah FL Responsibilities**

The City of Hialeah FL will:

1. Provide a signatory who has authority to sign all appropriate project documents required for this project and any other agreements required.
2. Ensure all radios, related accessories and applicable fixed equipment to be replaced are turned in and accounted for.
3. Before or at the Licensee/Motorola kick-off meeting and prior to any reconfiguration work being performed, confirm the following two documents have been received:



- a. FCC License(s): All rebanding impacted radio transmitters are licensed properly on their new rebanding frequencies and Licensee has received their new FCC license(s).
- b. Sprint Nextel Authorization to Move: The Licensee has received a separate Sprint Nextel letter (sent via FedEx) authorizing the Licensee to move to the new frequencies.
4. Provide site access to The City of Hialeah FL owned and controlled sites for Motorola personnel and Motorola's subcontractors for the purpose of reconfiguring the equipment located at that site.
5. The City of Hialeah will modify, build and pretest all templates and furnish on a CD to vendor performing subscriber reconfiguration in a manner consistent with the project schedule.
  - a. The City of Hialeah FL will provide written approval of templates prior to subscriber programming.
6. Provide the Programming Access Key (PAK) for each system that has to be programmed into this licensee's subscriber units.
7. Provide the subscriber radios and fleet coordination to ensure on-time project completion.
8. Provide all spare units identified in preliminary inventory, if any at the beginning of the project.
9. Not unreasonably delay the execution of work by Motorola and will extend the timeline of the project when delays caused by The City of Hialeah FL are experienced.
10. May be required to provide personnel during the reconfiguration process.
11. Identify any outstanding Motorola deliverables and formally request their completion through the mutual development of a project punchlist.
12. Grant final acceptance upon completion of The City of Hialeah FL system reconfiguration.

## **8.0 LOCAL SERVICE SUPPORT**

Motorola will utilize its authorized service center network and/or approved third party contractors to perform the reconfiguration of the equipment.

## **9.0 NOTIFICATION AND CONDITIONS FOR WORK**

Motorola will notify The City of Hialeah FL assigned point of contact a minimum of five (5) business days prior to starting any work on the system. Motorola will commence work at the designated location only after The City of Hialeah FL has notified Motorola with instructions to proceed. Whenever possible, prior notification of at least 24 hours will be given when expected disruptions are to occur.

## **10.0 LICENSING**

The City of Hialeah FL is responsible for updating, filing, and coordinating the frequency changes that become a part of this Rebanding program with the FCC. As a note, all radio transmitters must be properly licensed by the FCC.



### **11.0 RISKS**

Motorola is committed to mitigating all known risks and will engage The City of Hialeah FL whenever situations are identified in which a risk situation presents itself. Any event or occurrence that affects the project schedule is to be immediately reported to the Project Managers. A decision will be jointly made between Motorola and The City of Hialeah FL to consider the options and develop a mutually agreed-to solution.

There are risks associated with the work that needs to be performed on each piece of equipment. It is conceivable that a particular piece of equipment can be functional at the time of inventory but when rebanded, failures may occur when re-initializing the unit. Motorola will make every effort to ensure that any failure occurring in this situation be rectified immediately. In some cases adequate spares may not be available and could lead to a prolonged outage of equipment while obtaining replacement parts. If the system in question is currently under a direct service agreement with Motorola, any resolution to correct the failure will be covered under the agreement. If the equipment involved is not covered under a direct Motorola Service Agreement, resolution may require reimbursement for material and labor to correct the failure and restore the defective equipment from Sprint Nextel.

### **12.0 MEDIATION**

Where applicable, Motorola has provided at the Licensee's request, support for Alternate Dispute Resolution or Mediation. Per the TA guidelines these costs are reimbursable and therefore included in this quote as a line item in its price summary table. Motorola is not a party to the Mediation itself but has supported the Licensee for technical or other content as it relates to the Mediation. Motorola's Mediation support charges listed in this proposal may apply to the Planning phase as well as Implementation phase. This work supporting or participating in Mediations and disputes is not considered normal proposal activities. If the Licensee requests additional Mediation support from Motorola after a final Reconfiguration Proposal has been delivered, these charges will be submitted via a Change Order to the FRA.

Refer to the Proposal Pricing Summary Table for listed mediation charges and the attached Motorola Mediation Tracking Detail (date and time of activities by resource to support the mediation).

### **13.0 SYSTEM ACCEPTANCE**

Upon completion of the work for The City of Hialeah FL, a System Acceptance Certificate will be provided for customer signature (see Reconfiguration Implementation Phase Agreement, Terms and Conditions, Exhibit B). This certificate acknowledges that all of the effort necessary to reconfigure The City of Hialeah FL's system has been completed.



## 14.0 RECONFIGURATION PRICING PRICING SUMMARY

City of Hialeah, FL - Reconfiguration Services Quote					
Page 1					
Infrastructure					
Service	Resource	Qty-Units	Total-Hours	Rate	Price
<b>Reband Site # 1 - Fire Station 1</b>	MSRC		26	\$ 175.00	\$4,550
Controllers		2			
Repeaters		10			
Combiners & Duplexer (Antenna System)		2			
<b>Reband Site # 2 - Bucky Dent</b>	MSRC		18	\$ 175.00	\$3,150
Repeaters		12			
Combiners & Duplexer (Antenna System)		2			
Retune Duplexers		2			
<b>Reband Site # 3 - Police Department</b>	MSRC		14	\$ 175.00	\$2,450
Repeaters		10			
Combiners & Duplexer (Antenna System)		2			
<b>Site 6 -Mgmt Terminals Hialeah Fire Station One/Dispatch Center</b>	MSRC		60	\$ 175.00	\$10,500
Genwatch local terminal		1			
GenWatch Host Computer GW3HC with new rf modems		1			
GenWatch GW3HC CAD link and connection		1			
GenWatch Host database programming		1			
<b>Site 7- Mgmt Terminals Hialeah PD/Dispatch Center</b>	MSRC		48	\$ 175.00	\$8,400
GenWatch remotd terminal		2			
Install Network equipment for GenWatch remote terminal		1			
<b>Site 8 - Mgmt. Terminals Telecommunications</b>	MSRC		8	\$ 175.00	\$1,400
GenWatch GW3LE stand alone system		1			
<b>Site 9 - Mgmt Terminals Fleet</b>	MSRC		8	\$ 175.00	\$1,400
GenWatch GW3LE stand alone system		1			
<b>Site 10 - Management Terminals Solid Waste</b>	MSRC		8	\$ 175.00	\$1,400
GenWatch GW3LE stand alone system		1			
<b>Site 11 - Mgmt. Terminals Water &amp; Sewer</b>	MSRC		8	\$ 175.00	\$1,400
GenWatch GW3LE stand alone system		1			
<b>Site 12 - BDA Systems</b>	MSRC		16	\$ 175.00	\$2,800
Replace Palmeto General Hospital BDA filters with 18MHZ filters		1			
Replace Hialeah Hospital BDA filters with 18MHZ filters		1			
Replace Palmeto General Hospital BDA filters with 5MHZ filters		1			
Replace Hialeah Hospital BDA filters with 5MHZ filters		1			
Replace Tower Top Amp filters with 5MHZ filters (BD)	MSRC	15	Hours	\$175.00	\$2,625
Replace Tower Top Amp filters with 18MHZ filters (BD)	MSRC	15	Hours	\$175.00	\$2,625
Project Manager	PM	48	Hours	\$175.00	\$8,400
System Engineer	SE	28	Hours	\$175.00	\$4,900
System Technologist	ST	100	Hours	\$175.00	\$17,500
Tower Top Amp Installations	TTS	6	Hours	\$1,728.00	\$10,368
<b>Infrastructure Total</b>					<b>\$83,868</b>
Subscribers					
Service	Resource	Total Units		Rate	Extended Price
<b>Mobiles Total **</b>	MSS	460			\$50,268
<b>Portables Total **</b>	MSS	1,119			\$75,461
Replacement of dash mount radios **	MSS	29			\$7,871
Replacement of remote mount radios **	MSS	86			\$51,991
2nd. Programming of Subscribers (remove old freqs.) Mobiles **	MSS	306			\$25,276
2nd. Programming of Subscribers (remove old freqs.) Portables **	MSS	758			\$44,722
MCS3000 Installation material (CAT5)	MSS	1	Each	\$1,516.00	\$1,516
Project Manager on Site Supervision & Coordination	PM	384	Hours	\$175.00	\$67,200
ST Templates & procedures supervision and approvals	ST	48	Hours	\$175.00	\$8,400
SE Subscribers Support	SE	16	Hours	\$175.00	\$2,800
<b>** See details on attached "Subsc. Details Forms"</b>				<b>Subscriber Total</b>	<b>\$335,504</b>



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**PRICING SUMMARY CONTINUED**

<b>City of Hialeah, FL - Reconfiguration Services Quote</b>					
<b>Page 2</b>					
<b>Testing</b>					
Service	Resource	Quantity	Unit	Rate	Extended Price
Pre Rebanding Benchmark Testing	FSO	24	Hours	\$ 175.00	\$4,200
Post Rebanding Acceptance Testing	FSO	24	Hours	\$ 175.00	\$4,200
Functional Testing	MSRC	8	Hours	\$ 175.00	\$1,400
Method III Drive Test	Hicaps	144	Hours	\$ 175.00	\$25,200
Voyager Testing Equipment Deployment	MSS	2	Hours	\$ 3,030.00	\$6,060
Project Manager	PM	20	Hours	\$ 175.00	\$3,500
System Engineer	SE	10	Hours	\$ 175.00	\$1,750
System Technologist	ST	40	Hours	\$ 175.00	\$7,000
<b>Testing Total</b>					<b>\$53,310</b>
<b>Project Administration Services</b>					
<i>Kick off &amp; Status Meetings, On Site Coordination, Subcontracting, Close out</i>					
Service	Resource	Quantity	Unit	Rate	Extended Price
Project Manager	PM	220	Hours	\$175.00	\$38,500
System Engineer	SE	84	Hours	\$175.00	\$14,700
System Technologist	ST	96	Hours	\$175.00	\$16,800
Travel Expenses	TE				\$80,503.50
<i>* See SOW &amp; attached tracking sheet for details</i>				<b>Project Administration Activities Total</b>	<b>\$150,503.50</b>
<b>Equipment</b>					
SmartNet II+ Software Equipment *	Motorola	1	Each	\$12,315	\$12,315
GenWATCH Equipment *	Motorola	1	Each	\$349,074	\$349,074
BDAs & Miscell. Equipment *	Motorola	1	Each	\$8,553	\$8,553
Subscriber Software Upgrade Equipment *	Motorola	1	Each	\$3,990	\$3,990
<i>* See attached table for details</i>				<b>Equipment Total</b>	<b>\$373,932</b>
<b>Total Reconfiguration Price</b>					<b>\$997,117</b>
<b>Contingency Price</b>					<b>\$31,500</b>
<b>Total Reconfiguration Price with Contingency</b>					<b>\$1,028,617</b>

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**Price Validity:**

If Motorola delivers Products or performs Reconfiguration Implementation Phase Services after December 31, 2008, it reserves the right to increase the pricing for such Products and Reconfiguration Implementation Phase Services in a manner that is consistent with its confidential Master Purchase Agreement with Sprint Nextel. In addition, for Products that are priced based upon a discount from Motorola's published list prices, price adjustments will occur if and when Motorola's published list prices are modified and the adjusted prices will apply to any Products that are delivered after the modification to the published list prices. Subcontractor quotations are normally valid for a limited time period; if a Motorola subcontractor increases its subcontract price, then Motorola may increase its prime contract price for subcontracted work that is performed at the increased subcontract price. In all of these situations, any increase in the Contract Price will be reflected in a change order.



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## SERVICES DETAIL

### Professional Services

	Project Manager		System Engineer		System Technologist	
	Manhours	Days	Manhours	Days	Manhours	Days
<b>Project Administration Activities</b>						
<b>Project Summary (Duration) 199 days</b>						
Customer Status Meetings and Project Administration	148	19	64	8	64	8
<b>Project Kickoff - 7 days</b>						
Preplanning and Coordination Meeting/Order processing	16	2	8	1	8	1
<b>Project Close-Out - 10 days</b>						
Punch List resolution	40	5	8	1	16	2
Final Acceptance	16	2	4	0.5	8	1
<b>Total hours for Project Administration Activities</b>	<b>220</b>	<b>27.5</b>	<b>84</b>	<b>10.5</b>	<b>96</b>	<b>12</b>
<b>FNE Reconfiguration - 38 days</b>						
<b>FNE</b>						
Preplanning and Coordination Meeting	8	1	4	1	4	0.5
FNE Reconfiguration	40	5	24	3	96	12
<b>Total hours for Infrastructure</b>	<b>48</b>	<b>6</b>	<b>28</b>	<b>4</b>	<b>100</b>	<b>12.5</b>
<b>Testing</b>						
Conduct Pre Rebanding Verification Test(s)	4	0.5	4	0.5	16	2
Conduct Post Rebanding Verification Test(s)	4	0.5	4	0.5	16	2
Functional Acceptance Testing	4	0.5	2	0.25	8	1
Method III Drive Coverage Testing	8	1	0	0.0	0	0
<b>Total hours for Testing</b>	<b>20</b>	<b>2.5</b>	<b>10</b>	<b>1.25</b>	<b>40</b>	<b>5</b>
<b>Subscriber Reconfiguration - 69 days</b>						
Preplanning and Coordination Meeting	16	2	0	0	8	1
Subscriber Coordination	224	28	0	0	0	0
Template & flash/program procedures	8	1	8	1	16	2
	<b>248</b>	<b>31</b>	<b>8</b>	<b>1</b>	<b>24</b>	<b>3</b>
<b>Subscriber Reconfiguration - 50 days (Second touch, if required)</b>						
Preplanning and Coordination Meeting	8	1	0	0	8	1
Subscriber Coordination	120	15	0	0	0	0
Template & flash/program procedures	8	1	8	1	16	2
	<b>136</b>	<b>17</b>	<b>8</b>	<b>1</b>	<b>24</b>	<b>3</b>
<b>Total time for Subscribers Reconfiguration</b>	<b>384</b>	<b>48</b>	<b>16</b>	<b>2</b>	<b>48</b>	<b>6</b>
<b>TOTAL PROFESSIONAL SERVICES TIME</b>	<b>672</b>	<b>84</b>	<b>138</b>	<b>18</b>	<b>284</b>	<b>36</b>



## SERVICES DETAIL CONTINUED

### Travel Detail

					500.00 of miles @ \$0.485	Per diem	Air fare	Car rental			
Labor Category	Project Phase	Number of resources	Number of trips	Days out per week	Mileage	\$200.00	\$1,000.00	\$225.00	Totals/Trip	Project totals	Agreed 5% mark up
Project Manager	Infrastructure	1	1	5	\$0.00	\$200.00	\$1,000.00	\$225.00	\$2,225.00	\$2,225.00	\$2,336.25
	Subscribers	1	10	4	\$0.00	\$200.00	\$1,000.00	\$225.00	\$2,025.00	\$20,250.00	\$21,262.50
	Testing	1	1	3	\$242.50	\$200.00	\$0.00	\$0.00	\$842.50	\$842.50	\$884.63
	Overall Project	1	4	4	\$0.00	\$200.00	\$1,000.00	\$225.00	\$2,025.00	\$8,100.00	\$8,505.00
Systems Engineer	Infrastructure	1	1	3	\$0.00	\$200.00	\$1,000.00	\$225.00	\$1,825.00	\$1,825.00	\$1,916.25
	Subscribers	0	0	0	\$242.50	\$0.00	\$0.00	\$0.00	\$242.50	\$0.00	\$0.00
	Testing	1	2	3	\$0.00	\$200.00	\$1,000.00	\$225.00	\$1,825.00	\$3,650.00	\$3,832.50
	Overall Project	1	2	4	\$0.00	\$200.00	\$1,000.00	\$225.00	\$2,025.00	\$4,050.00	\$4,252.50
Systems Technologist	Infrastructure	1	3	4	\$0.00	\$200.00	\$1,000.00	\$225.00	\$2,025.00	\$6,075.00	\$6,378.75
	Subscribers	1	2	3	\$0.00	\$200.00	\$1,000.00	\$225.00	\$1,825.00	\$3,650.00	\$3,832.50
	Testing	1	2	3	\$0.00	\$200.00	\$1,000.00	\$225.00	\$1,825.00	\$3,650.00	\$3,832.50
	Overall Project	1	3	4	\$0.00	\$200.00	\$1,000.00	\$225.00	\$2,025.00	\$6,075.00	\$6,378.75
Vendor	Infrastructure	3	1	7	\$242.50	\$200.00	\$0.00	\$0.00	\$1,642.50	\$4,927.50	\$5,173.88
	PM: CDT Method III	1	2	2	\$0.00	\$200.00	\$1,000.00	\$225.00	\$1,625.00	\$3,250.00	\$3,412.50
	SE: CDT Method III	1	4	4	\$0.00	\$200.00	\$1,000.00	\$225.00	\$2,025.00	\$8,100.00	\$8,505.00
<b>Estimated Total Travel Expenses</b>									<b>\$80,503.50</b>		

*Note: Expenses shown are estimates based on the Scope of Work and required travel for completing the Reconfiguration Design.  
Sprint/Nextel will be billed actual expenses plus 5% markup.*

### Contingency Detail

Project Area	Risk Description	Resource Description	Unit	Qty.	Rate	Amount
Project Kickoff Slippage	Delay of project and committed resources	PM/SE	Hours	40	\$ 175.00	\$ 7,000.00
Under Estimate of Subscriber units	Additional units to reband	PM/Shop	Hours	40	\$ 175.00	\$ 7,000.00
Infrastructure Failure due to age / Condition	Delay of project	PM/Shop	Hours	40	\$ 175.00	\$ 7,000.00
Subscribers Availability	Project delay caused by the Licensee making insufficient number of subscribers available during reconfiguration. It will require additional PM hours to coordinate and schedule subscriber reconfiguration.	PM/ST	Each	60	\$ 175.00	\$ 10,500.00
<b>Total Contingency</b>						<b>\$ 31,500</b>

## SERVICES DETAIL CONTINUED

### Subscriber Deployment Form (SED) Page 1 of 2

Licensee Name: City of Hialeah, FL

Level of Effort							
Level of Effort (LOE) lists the time the TA presumes reasonable for each task, measured in man-hours. Licensees must list only the minimum time necessary to complete the task. If the LOE required is greater than that listed the last column, the licensee must attach justification. You may insert rows in the installation sections to list different special vehicle types. You may use separate sheets for multiple agencies/departments.							
Replacement of Dash Mount Radios							
Task	Description	Per Unit Time in Hrs	Quantity	Total Time Hrs	Rate \$	Total \$	LOE for a task on a per unit basis in man-hours
1	<ul style="list-style-type: none"> <li>Load programming template into new radio</li> <li>De-install &amp; install of new dash mount radio</li> <li>No antenna cable or mount install</li> <li>Installation of new antenna rod only</li> <li>Install new radio power cable(s)</li> <li>Functional post test</li> <li>Unpackage &amp; Repackage Radios/Ship</li> <li>Includes up to 30 miles travel for installer</li> </ul>						
1a	De-install & install for standard sedan or light/medium truck with unit installed under the dash and no obstructions or special installation requirements. Includes subtasks above	2.3	29	66.7	\$118.00	\$ 7,870.60	2.4
1b	De-install & install into Police sedan/cruiser (Center control console)	0.0	0	0.0	\$118.00	\$ -	3.3
1c	De-install & install into Fire Truck	0.0	0	0.0	\$118.00	\$ -	3.8
1d	De-install & install into special vehicle (Insert hours and describe below)	0.0	0	0.0	\$118.00	\$ -	By quote
							See Instructions for Submitting a Subscriber Equipment Deployment Request for additional guidance
<b>Replacement of Dash Mount Radios TOTAL</b>						<b>\$ 7,870.60</b>	
Replacement of Remote Mount Radios							
Task	Description	Per Unit Time in Hrs	Quantity	Total Time Hrs	Rate \$	Total \$	LOE for a task on a per unit basis in man-hours
2	<ul style="list-style-type: none"> <li>Load programming template into new radio</li> <li>De-install &amp; install of new trunk mount radio</li> <li>No antenna cable or mount install</li> <li>Installation of new antenna rod only</li> <li>Install new radio power cables</li> <li>Functional post test</li> <li>Unpackage &amp; Repackage Radios/Ship</li> <li>Includes up to 30 miles travel</li> </ul>						
2a	De-install & install for standard sedan or light/medium truck with no obstructions or special installation requirements. Includes subtasks above	0.0	0	0.0	\$118.00	\$ -	3.3
2b	De-install & install into Police sedan/cruiser (Center control console)	0.0	0	0.0	\$118.00	\$ -	3.9
2c	De-install & install into Fire Truck	4.7	13	61.1	\$118.00	\$ 7,209.80	4.7
2d	De-install & install into special vehicle (Insert hours and describe below)	4.7	27	126.9	\$118.00	\$ 14,974.20	By quote
	Describe the special vehicle De-install & install in this cell. Motorcycle mount radios						See Instructions for Submitting a Subscriber Equipment Deployment Request for additional guidance
2e	Add time for special install conditions in cell to right. (Extra Travel, Time due to custom install, install of new antenna and mount, and etc.) Describe the special conditions in this cell. Installation of Consolette Control Stations	4.7	46	216.2	\$118.00	\$ 25,511.60	By quote
							See Instructions for Submitting a Subscriber Equipment Deployment Request for additional guidance
2f	Installation of dual control head	2.8	13	36.4	\$118.00	\$ 4,295.20	2.8
<b>Replacement of Remote Mount Radios TOTAL</b>						<b>\$ 11,990.80</b>	



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## SERVICES DETAIL CONTINUED

### Subscriber Deployment Form (SED) Page 2 of 2

Level of Effort (Continued)							
Retune Existing Mobile Radios							
Task	Description	Per Unit Time in Hrs	Quantity	Total Time Hrs	Rate \$	Total \$	LOE for a task on a per unit basis in man-hours
3	<ul style="list-style-type: none"> <li>Functional Pre-Test of existing radio - Talk group call on system</li> <li>Retune existing radio (no obstruction to retuning of radio)</li> <li>Functional post test of existing radio - Talk group call on system</li> </ul>	0.7	105	73.5	\$118.00	\$ 8,673.00	0.9
3a	Removal and re-install of existing mobile radio if radio cannot be programmed in the vehicle due to obstruction to programming port.	0.9	3	2.7	\$118.00	\$ 318.60	1.0
Flashing and Retuning Existing Mobiles							
Item	Description	Per Unit Time in Hrs	Quantity	Total Time Hrs	Rate \$	Total \$	LOE for a task on a per unit basis in man-hours
4	<ul style="list-style-type: none"> <li>Functional Pre-Test of existing radio - Talk group call on system</li> <li>Flash existing radio with Rebanding software</li> <li>Load programming template into existing radio (no obstruction to programming port of radio and radio is to be flashed and programmed in the vehicle)</li> <li>Functional post test of existing radio - Talk group call on system</li> </ul>	0.8	11	8.8	\$118.00	\$ 1,038.40	0.9
4a	Removal and re-install of existing mobile radio if radio cannot be programmed in the vehicle due to obstruction to programming port.	1.0	341	341.0	\$118.00	\$ 40,238.00	1.0
<b>TOTAL MOBILE RADIOS</b>						<b>\$ 50,286.00</b>	
Portable Radios							
Task	Description	Per Unit Time in Hrs	Quantity	Total Time Hrs	Rate \$	Total \$	LOE for a task on a per unit basis in man-hours
5	<b>Retune Existing Portable</b> <ul style="list-style-type: none"> <li>Functional Pre-Test of existing radio - Talk group call on system</li> <li>Retune existing radio (no obstruction to retuning of radio)</li> <li>Functional post test of existing radio - Talk group call on system</li> </ul>	0.5	104	52.0	\$118.00	\$ 6,136.00	0.7
5a	<b>Flashing and Retuning of Existing Portable Radio</b> <ul style="list-style-type: none"> <li>Functional Pre-Test of existing radio - Talk group call on system</li> <li>Flash existing radio with Rebanding software</li> <li>Load programming template into existing radio</li> <li>Functional post test of existing radio - (Includes MOSCAD units)</li> </ul>	0.6	800	480.0	\$118.00	\$ 56,640.00	0.7
5b	<b>Replacement of Existing Portable Radio</b> <ul style="list-style-type: none"> <li>Load programming template into new radio</li> <li>Functional post test of new radio - Talk group call on system</li> <li>Unpackage &amp; Repackage Radios</li> </ul>	0.5	215	107.5	\$118.00	\$ 12,685.00	0.6
<b>TOTAL PORTABLES RADIOS</b>						<b>\$ 75,461.00</b>	
Other Tasks							
Task	Description	Per Unit Time in Hrs	Quantity	Total Time Hrs	Rate \$	Total \$	LOE for a task on a per unit basis in man-hours
7	Second programming of subscribers (remove old freqs.) Mobiles	0.7	306	214.2	\$118.00	\$ 25,275.60	By Quote
7a	Second programming of subscribers (remove old freqs.) Portables	0.5	758	379.0	\$118.00	\$ 44,722.00	By Quote
<b>Grand Total</b>						<b>\$ 255,588.00</b>	



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## EQUIPMENT DETAIL

### SmartNet II+ Software Equipment List

Item	Qty	Model	Description	Unit Price	Extended Price
1	6	UOST-0001	6809 28 Ch Controller Code Plug	\$1,298	\$7,788
2	3	UOST-0004	CSC Software	\$1,509	\$4,527
<b>Total</b>					<b>\$12,315</b>

### GenWATCH Equipment List

Item	Qty	Model	Description	Unit Price	Extended Price
1	4	L3518	SIP Replacement (GW3-COM-LE1-B)	\$27,455.00	\$109,820
2	3	L3516	SIMS II Client (GW3-COM-CL1-B)	\$42,840.00	\$128,520
3	1	L3517	SIMS II Host/Client (GW3-COM-HO1-B)	\$94,350	\$94,350
4	2	HKUN4033	RF MODEM/CLOCKING RADIO 800MHZ 10-15W	\$1,840	\$3,680
5	2	HPN4008	POWER SUPPLY & CBL (1-25 WATT MODELS)	\$187	\$375
6	1	6881081C15	RADIO SERVICE S/W INSTRUCTION MANUAL	\$17	\$17
7	4	ST2512	S2500 ROUTER T1/E1 DAUGHTER BOARD	\$720	\$2,880
8	2	ST2500	S2500 MULTIPROTOCOL WAN ROUTER	\$2,790	\$5,580
9	2	CDN6224	SNAP ON PLUG, RJ-45 PACK OF 10	\$38	\$75
10	1	CDN6222	10 BASE-T PLENUM CABLE 500 FT	\$177	\$177
11	2	DSJ4900B	HP PROCURVE SWITCH 2626B	\$1,800	\$3,600
<b>Total</b>					<b>\$349,074</b>

### BDAs & Miscell. Equipment List

Item	Qty	Model	Description	Unit Price	Extended Price
1	3	DQ9200HIALEAH1	TX RX Combiner Cables	\$803.00	\$2,409.00
2	3	DQ9200HIALEAH2	TX RX Combiner Cables	\$803.00	\$2,409.00
3	3	DQ8986A076875	5MHz filter kit for the TTA	\$534.00	\$1,602.00
4	3	DQ8986A0768718	18MHz filter kit for the TTA	\$711.00	\$2,133.00
<b>Total</b>					<b>\$8,553.00</b>

### Subscriber Software Upgrade Equipment List

Item	Qty	Model	Description	Unit Price	Extended Price
1	38	H1627A	SMARTNET PKG MCS2000	\$0.00	\$0
1a	38	Q326	ENH: UPGRADE TO SMARTNET	\$45.00	\$1,710
1b	38	H259	ENH: 150 MODE CAPABILITY	\$60.00	\$2,280
<b>Total</b>					<b>\$3,990</b>



## EQUIPMENT DETAIL CONTINUED

### Subscriber Flashkits

Generic Radio Model	Radio Model Number	Flashkit type required	QTY Flashkits per kit	T Model	Flashcode	Option	Price
MTS2000	H01UCF6PW1BN	3600 Analog (Type II / TYPE III)	63	N1706	000008-000000-2	Q880AF	Paid by Sprint/Nextel
MTS2000	H01UCF6PW1BN	3600 Analog (Type II / TYPE III)	100	N1706	000008-000000-2	Q880AF	Paid by Sprint/Nextel
MTS2000	H01UCF6PW1BN	3600 Analog (Type II / TYPE III)	100	N1706	000008-000000-2	Q880AF	Paid by Sprint/Nextel
MTS2000	H01UCF6PW1BN	3600 Analog (Type II / TYPE III)	100	N1706	000008-000000-2	Q880AF	Paid by Sprint/Nextel
MTS2000	H01UCF6PW1BN	3600 Analog (Type II / TYPE III)	100	N1706	000008-000000-2	Q880AF	Paid by Sprint/Nextel
MTS2000	H01UCF6PW1BN	3600 Analog (Type II / TYPE III)	100	N1706	000008-000000-2	Q880AF	Paid by Sprint/Nextel
MTS2000	H01UCF6PW1BN	3600 Analog (Type II / TYPE III)	64	N1706	000008-000000-2	Q880AF	Paid by Sprint/Nextel
XTS1500	H66UCC9PW5AN	3600 IMBE/Analog & P25	7	T7017	500008-000410-5	Q880AD	Paid by Sprint/Nextel
XTS2500	H46UCH9PW7AN	3600 IMBE/Analog & P25	24	T6811	500008-000410-5	Q880AC	Paid by Sprint/Nextel
XTS5000	H18UCH9PW7AN	3600 IMBE/Analog & P25	19	T6751	100008-000000-0	Q880AA	Paid by Sprint/Nextel
Astro Spectra (W5)	D04UJH9PW7AN	3600 Analog (Type II / TYPE III)	24	H1623	000008-000000-2	G880AE	Paid by Sprint/Nextel
MCS2000	M01UJM6PW6BN	3600 Analog (Type II / TYPE III)	38	H1628A	000008-000000-2	G880AD	Paid by Sprint/Nextel
MCS2000	M01UJM6PW6BN	3600 Analog (Type II / TYPE III)	94	H1628A	000008-000000-2	G880AD	Paid by Sprint/Nextel
MCS2000	M01UJM6PW6BN	3600 Analog (Type II / TYPE III)	90	H1628A	000008-000000-2	G880AD	Paid by Sprint/Nextel
MCS2000	M01UJM6PW6BN	3600 Analog (Type II / TYPE III)	90	H1628A	000008-000000-2	G880AD	Paid by Sprint/Nextel
XTL5000	M20URS9PW1AN	3600 Analog (Type II / TYPE III)	13	T7000	000008-000000-2	G880AB	Paid by Sprint/Nextel
Astro Spectra Plus (W5)	D04UJF9SW5AN	3600 Analog (Type II / TYPE III)	1	T6769	000008-000000-2	G880AA	Paid by Sprint/Nextel
MCS2000	M01UJM6PW6BN	3600 Analog (Type II / TYPE III)	2	H1628A	000008-000000-2	G880AD	Paid by Sprint/Nextel
MTS2000	H01UCF6PW1BN	3600 Analog (Type II / TYPE III)	86	N1706	000008-000000-2	Q880AF	Paid by Sprint/Nextel
			20	Total Flash Kits			
			1215	Total Flashkits			

### Replacement Subscribers List

RBP03 - XTS2500			MOT	
Enter Dept or Agency by configuration: >>>			P.D. MTS2000-I	
			Smartnet	
			Analog	
			Model 3	
			STD	
			config 1	
QTY	Model	Item		
		Items Comprising the Base Kit Smartnet Package are in Bold		
		Enter quantity	23	Paid by Sprint/Nextel
23	H46UCH9PW2BN	XTS2500 Rebanding Portable Radio Model 3	23	Paid by Sprint/Nextel
		Included Std Whip Antenna		
		Included Std Belt Clip		
		Included Standard Battery		
23	QA00354AA	Analog Smartnet	23	Paid by Sprint/Nextel
23	H43	Remote Monitor - H43	23	Paid by Sprint/Nextel
23	NTN9815	Spare Battery - NTN9815	23	Paid by Sprint/Nextel
23	NTN1873	Single Unit Rapid Charger - NTN1873	23	Paid by Sprint/Nextel
23	QA00211AA	IMMERSIBLE OPTION		Paid by Sprint/Nextel
23	Q3933 SUBM	IMPRES BATTERY FM NIMH IMMERSIBLE 2000 MAH (FM) - RUGGEDIZED		Paid by Sprint/Nextel
23	NNTN6263			Paid by Sprint/Nextel



**EQUIPMENT DETAIL CONTINUED**  
**Replacement Subscribers List**

<b>XTS5000</b>			<b>MOT</b>	
<b>Enter Dept or Agency by configuration: &gt;&gt;&gt;</b>			MTS2000-I, Mode Limited, PSM/SMA Capable	
			Smartnet	
			Analog	
			No Vehicular Adapter	
			FM	
QTY	Model	Item	config 1	
		Enter quantity	129	Paid by Sprint/Nextel
129	H18UCH9PW6 N	XTS5000 Portable Radio Model II 800 MHz	129	Paid by Sprint/Nextel
		Included Std Belt Clip		
		Included Standard Battery		
129	H223	Impress Nicad FM Battery 1525mAh	129	Paid by Sprint/Nextel
129	Q241	Analog Operation	129	Paid by Sprint/Nextel
129	H37	Smartnet Software	129	Paid by Sprint/Nextel
129	HNN9032	Spare FM Battery	129	Paid by Sprint/Nextel
129	NTN1873	Single Unit Rapid Charger	129	Paid by Sprint/Nextel
129	NTN8327	RF Adaptor Switch	129	Paid by Sprint/Nextel
129	HAF4017	3db Antenna	129	Paid by Sprint/Nextel
30	N2002	Vehicular Adapter - Open Face BNC	0	Paid by Sprint/Nextel
30	Q760	Next Generation Mobile Microphone	0	Paid by Sprint/Nextel
30	Q147	Audio PA and Speaker with Cable	0	Paid by Sprint/Nextel
30	NLF1258	800 MHz RF PA (806-870 MHz) 15W	Verified	Paid by Sprint/Nextel
29	NMN6247	Speaker Microphone Antenna 30" Straight Cord	Verified	Paid by Sprint/Nextel
129	H499	SUBMERSIBLE - 6 FT. 2 HOURS (RUGGED)		Paid by Sprint/Nextel
129	H223RUGD	BATTERY NICAD FM 1525MAH RUGGED (NTN8297)		Paid by Sprint/Nextel
129	NNNTN4437B	IMPRES SMART RUGGEDIZED NIMH (2000 MAH)		Paid by Sprint/Nextel

<b>RBM03 - XTL2500</b>			<b>MOT</b>	
<b>Enter Dept or Agency by configuration: &gt;&gt;&gt;</b>			Spectra C2/C5 Dash	
			Smartnet	
			Analog	
			Dash	
			Palm Mic	
			7.5 watt	
			1/4 Wave	
QTY	Model	Item	config 1	
		Items Comprising the Base Kit Smartnet Package are in Bold		
		Enter quantity	29	Paid by Sprint/Nextel
29	M21URM9PW2AN	XTL2500 Rebanding Mobile Radio	29	Paid by Sprint/Nextel
29	G335	Antenna 1/4 Wave	29	Paid by Sprint/Nextel
29	W22	Palm Microphone - W22	29	Paid by Sprint/Nextel
29	B18	7.5W Speaker - B18	29	Paid by Sprint/Nextel
29	G442	Control Head - G442	29	Paid by Sprint/Nextel
29	G444	Control Head software - G444	29	Paid by Sprint/Nextel
29	G66	Mounting Kit G66 or G67 included in base	29	Paid by Sprint/Nextel
29	G241	Analog operation	29	Paid by Sprint/Nextel
29	GA00008AA	Software SmartNet/singletone	29	Paid by Sprint/Nextel
29	G114	Enh ID Display - G114	29	Paid by Sprint/Nextel
29	G170	Radio Trace - G170	29	Paid by Sprint/Nextel
29	G683	One Touch - G683	29	Paid by Sprint/Nextel



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**EQUIPMENT DETAIL CONTINUED**  
**Replacement Subscribers List**

XTL5000			MOT	MOT	MOT	MOT	
Enter Dept or Agency by configuration: >>>			Spectra C7 Motorcycle Model	Spectra C9 Remote, Dual Head	Spectra Consolette, w/Tone Cntrl	Spectra Consolette, w/DGT Cntrl	
			Smartnet	Smartnet	Smartnet	Smartnet	
			Analog	Analog	Analog	Analog	
			Motorcycle	Dual Control	Consolette	Consolette	
			Palm Mic	Palm Mic	None	None	
			W7	W9	O5	O5	
			7.5 watt	7.5 watt	None	None	
			1/4 Wave	1/4 Wave	None	None	
QTY	Model	Item	config 1	config 2	config 3	config 4	
		Enter Quantity	27	13	26	20	Paid by Sprint/Nextel
40	M20URS9PWIAN	XTL5000 Mobile Radio 800 MHz	27	13	0	0	Paid by Sprint/Nextel
46	L20URS9PWIAN	XTL5000 Consolette 800MHz	0	0	26	20	Paid by Sprint/Nextel
40	G335	Antenna - 1/4 wave	27	13	0	0	Paid by Sprint/Nextel
27	W22AT	Palm Microphone - Motorcycle	27	0	0	0	Paid by Sprint/Nextel
13	W22	Palm Microphone	0	13	0	0	Paid by Sprint/Nextel
46	G90	No Microphone Needed	0	0	26	20	Paid by Sprint/Nextel
46	G442	O5 Control Head	0	0	26	20	Paid by Sprint/Nextel
46	G444	O5 Control Head Software	0	0	26	20	Paid by Sprint/Nextel
27	G138	XTL Motorcycle Control Head Software	27	0	0	0	Paid by Sprint/Nextel
27	G67MTCL	Motorcycle Mounting	27	0	0	0	Paid by Sprint/Nextel
13	G81	W9 Control Head	0	13	0	0	Paid by Sprint/Nextel
27	G84	Motorcycle Control Head W7	27	0	0	0	Paid by Sprint/Nextel
13	G99	W9 Control Head Software	0	13	0	0	Paid by Sprint/Nextel
13	G67	Remote Mount	0	13	0	0	Paid by Sprint/Nextel
13	B18	Loud Speaker - 7.5 Watt	0	13	0	0	Paid by Sprint/Nextel
27	B18CM	Loud Speaker - 7.5 Watt - Motorcycle	27	0	0	0	Paid by Sprint/Nextel
46	G142	Omit Speaker	0	0	26	20	Paid by Sprint/Nextel
86	G241	Analog Operation	27	13	26	20	Paid by Sprint/Nextel
86	G50	SmartNet Operation	27	13	26	20	Paid by Sprint/Nextel
86	G114	Enh ID Display - G114	27	13	26	20	Paid by Sprint/Nextel
27	W620	No Motorcycle enclosure needed	27	0	0	0	Paid by Sprint/Nextel
13	W800	Dual Control Head W9	0	13	0	0	Paid by Sprint/Nextel
<b>Additional Options Available</b>			<b>Additional Option Quantity Must Equal Radio Quantity for Each Configuration</b>				
13	G610	Remote Mount Cable - 30 ft	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Paid by Sprint/Nextel
20	L791	Basic Audio Control Interface Board	<input type="checkbox"/>	<input type="checkbox"/>	0	20	Paid by Sprint/Nextel
26	L146	Tone Remote Interface Board	<input type="checkbox"/>	<input checked="" type="checkbox"/>	26	0	Paid by Sprint/Nextel
20	L3208	Digital Junction Box - Consolette	<input type="checkbox"/>	<input type="checkbox"/>	0	20	Paid by Sprint/Nextel
22	L3223	MC3000 Digital Deskset	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	22	Paid by Sprint/Nextel
13	G833	Palm Microphone (W7 or W9)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	13	<input type="checkbox"/>	Paid by Sprint/Nextel
18	W382	Desktop Microphone	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Paid by Sprint/Nextel
267	<b>Total Replacement Subscribers</b>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



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## **ATTACHMENTS**

- Attachment A. INTERMODULATION REPORT**
- Attachment B. SUITABILITY ASSESSMENT IMPACT REPORT**
- Attachment C. FUNCTIONAL ACCEPTANCE TEST PROCEDURES (ATP)**
- Attachment D. RF PERFORMANCE VERIFICATION PLAN**
- Attachment E. CUTOVER & FALL BACK PLAN**
- Attachment F. RECONFIGURATION PROJECT SCHEDULE**
- Attachment G. EQUIPMENT RETURN PROCESS**

***ATTACHMENT A***  
***INTERMODULATION REPORT***



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**800 MHz Re-banding  
Bucky Dent Site, Hialeah, FL  
Intermodulation Analysis**

**Government & Commercial Markets - Americas**

**Version D01.00.01**

**Date: November 13, 2007**



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## Intermodulation Summary:

During rebanding, 10 channels located in the 821 MHz sub-band used at the Bucky Dent Site, owned by Hialeah, FL will move to the 806 MHz band. Complete frequency information is listed in the Analysis Factors section of this report.

The Intermodulation (IM) study indicates no 3<sup>rd</sup>, 5<sup>th</sup>, or 7<sup>th</sup> order intermodulation products received by the newly rebanded 800 MHz frequencies at the Bucky Dent Site.

The detailed intermodulation analysis is included in the following sections.

## Analysis Introduction:

Intermodulation (IM) products are generated whenever two or more transmit frequencies mix together. If there is more than one transmit frequency at a site an IM analysis is necessary to check for possible IM interference problems. There are three basic categories of Intermodulation (IM) interference. They are receiver produced, transmitter produced, and "other" radiated IM. Transmitter produced IM is the result of one or more transmitters impressing a signal in the non-linear final output stage circuitry of another transmitter, usually via antenna coupling. The IM product frequency is then re-radiated from the transmitter's antenna. Receiver produced IM is the result of two or more transmitter signals mixing in a receiver RF amplifier or mixer stage when operating in a non-linear range. "Other" radiated IM is the result of transmitter signals mixing in other non-linear junctions. These junctions are usually metallic, such as rusty bolts on a tower, dissimilar metallic junctions, or other non-linear metallic junctions in the area. IM products can also be caused by non-linearity in the transmission system such as antenna, transmission line, or connectors.

This IM study has been performed to predict IM products that could be generated by the potential new frequencies as they are used at the Bucky Dent Site after Rebanding. The Bucky Dent Site is one of the sites used in Hialeah, FL project. During rebanding, 10 channels located in the 821 MHz sub-band used at the Bucky Dent Site, owned by Hialeah, FL will move to the 806 MHz band. All frequencies included in this intermodulation study are a result of information provided to Motorola during data collection exercise.

## Analysis Factors:

Following are the frequencies used in generating the Hialeah, FL IM report:

Red (**bold**) frequencies in the table are new rebanding frequencies at the site. Blue frequencies in the table are frequencies at the site that did not change due to rebanding.

	Transmit Frequency:	Receive Frequency:	Owner
1.	853.825	808.825	Hialeah, FL
2.	853.3	808.3	Hialeah, FL
3.	852.1625	807.1625	Hialeah, FL
4.	852.5875	807.5875	Hialeah, FL
5.	851.25	806.25	Hialeah, FL
6.	853.325	808.325	Hialeah, FL
7.	852.85	807.85	Hialeah, FL
8.	851.7875	806.7875	Hialeah, FL
9.	852.2	807.2	Hialeah, FL
10.	851.1625	806.1625	Hialeah, FL

The analysis calculates possible IM product frequencies through the seventh (7<sup>th</sup>) order that could potentially interfere with receivers at the communications site based on each receiver's individual bandwidth. The results can be used to develop an IM mitigation strategy. The parameters that affect the IM product calculations are: Order of IM products, the number of transmitters, the number of harmonics, and the half window (bandwidth) of the receiver. Following are the parameters used for the Hialeah, FL IM analysis:

Minimum Number Transmitters = 2  
Maximum Number Transmitters = 7  
Minimum Order = 2  
Maximum Order = 7  
Minimum Harmonic = 1  
Maximum Harmonic = 6  
Half Window = 25 kHz

The product order is equal to the harmonic multiples of the transmitter frequencies added together. For this IM analysis, 3<sup>rd</sup>, 5<sup>th</sup> and 7<sup>th</sup> order IM study reports were created. There is a possibility of higher order IM product interference. As the product order increases, the magnitude of the interfering signal decreases. Once the magnitude of the signal drops below the sensitivity of the target receiver, it is considered a minimal threat. For this reason 7<sup>th</sup> order is the maximum product order considered in this analysis. To generate 7<sup>th</sup> order IM products, the maximum of 7 transmitters are required to broadcast simultaneously, or a combination sum of the harmonic factors of the transmitters is equal to 7(e.g. 3A+4B or 3A-4B).

Harmonic represents the multiple of the original transmitter's carrier frequency. The greater the harmonic multiple of a transmitter signal, the lower the power will be relative to the transmitter signal and therefore, the smaller the level of the interfering signal. For the

7<sup>th</sup> order IM products, the maximum harmonic required is 6 for minimum two transmit frequency assuming that one transmitter alone will not create IM interference.

Half window of the receiver is the most critical parameter which takes into consideration the receiver bandwidth. During calculation, Hydra checks IM products within (+/- (Half window) KHz) of all Rx frequencies. For this analysis 25 KHz was used as receiver half bandwidth.

## Analysis Results:

Hydra was used to generate a 3<sup>rd</sup>, 5<sup>th</sup>, and 7<sup>th</sup> order IM report.

\*\*\*\*\*

### Intermod Hits Summary

RX ID	RX Frequency	Total Hits	Direct Hits
-------	--------------	------------	-------------

-----

### Intermod Hits By Order

RX ID	RX Frequency
-------	--------------

-----

### Intermod Hits By Number of Transmitters

RX ID	RX Frequency
-------	--------------

-----

\*\*\*\*\*

\*\*\*\*\* NO INTERMOD HITS DETECTED \*\*\*\*\*

As seen in the report, The Intermodulation (IM) study indicates no 3<sup>rd</sup>, 5<sup>th</sup>, or 7<sup>th</sup> order intermodulation products received by the newly rebanded 800 MHz frequencies at the Bucky Dent Site. Any even order IM products are prevented by the equipment design of the system.

The presence of IM products does not necessarily indicate an IM hit. To evaluate the impact of direct and indirect IM products, further investigation is needed which could include identification of mixing point, determining probability of transmission on each frequency, power level at mixing point, etc. Generally 5<sup>th</sup> order IM products have a lower impact than 3<sup>rd</sup> order, but can cause significant IM problems if the power level at the mixing point is high, further investigation would be needed. The severity of the 7<sup>th</sup> order IM products is relatively low and can be ignored if the power level is low.



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These results were generated assuming the presence of only the frequencies mentioned in Analysis Factor section. If there is a change in the frequencies used at the site, another IM analysis should be done to re-evaluate the impact of intermodulation.

## Recommendations:

1. Avoid using frequencies that have direct 3<sup>rd</sup> order IM products or create direct 3<sup>rd</sup> order IM products.
2. Not all of the mixing possibilities are significant in creating interference signals. Higher order IM products are usually weaker in signal strength. Also, the interference depends on the power level of the mixing signal. Impact of higher order IM products can be mitigated by controlling the power level of the mixing signal.
3. Provide separate transmit and receive cables. This would move the mixing point far from both the transmitters and receivers resulting in less probability of an IM problem.
4. Replace all connectors in the system with premium grade connectors where VHF, lower UHF, and 800MHz frequencies are present.
5. In addition to the connectors, quality components should be used throughout the system, such as power dividers and cross-band couplers. The installation must always be of the highest quality. A premium component will cause problems if not installed properly.
6. Direct IM products are more significant than indirect IM products. The impact of indirect IM products will depend on signal level and how far apart is the IM product from the receiver frequency.

## Disclaimer:

Intermodulation distortion products (IM) are always present where two or more collocated transmitters are operating simultaneously. Managing the power levels of the IM signals developed through proper system design will determine whether they cause harmful interference to communications.

The IM analysis is simply one of the tools used to guide proper design and must be used by a trained technical person competent to understand its meaning and limitations. The appearance of an IM product in the analysis does not mean such a product will cause harmful interference, or indeed even be present. It simply indicates the mathematical possibility of a product being produced.



**800 MHz Re-banding  
Fire Station 1 Site, Hialeah, FL  
Intermodulation Analysis**

**Government & Commercial Markets - Americas**

**Version D01.00.01**

Date: November 13, 2007



## Intermodulation Summary:

During rebanding, 15 channels located in the 821 MHz sub-band used at the Fire Station 1 Site, owned by the Hialeah, FL will move to the 806 MHz band. Complete frequency information is listed in the Analysis Factors section of this report.

The Intermodulation (IM) study indicates some 3<sup>rd</sup>, 5<sup>th</sup> and 7<sup>th</sup> order intermodulation products received by the newly rebanded 800 MHz frequencies at the Fire Station 1 Site. These IM products are caused by mixing of newly rebanded transmit frequencies at the site. The total number of direct and indirect 3rd order IM products caused by the mixing of newly rebanded frequencies is 55. The total number of direct and indirect 5<sup>th</sup> order IM products caused by the mixing of newly rebanded frequencies is 2116. The total number of direct and indirect 7<sup>th</sup> order IM products caused by the mixing of newly rebanded frequencies is 29,981.

The detailed intermodulation analysis is included in the following sections.

## Analysis Introduction:

Intermodulation (IM) products are generated whenever two or more transmit frequencies mix together. If there is more than one transmit frequency at a site an IM analysis is necessary to check for possible IM interference problems. There are three basic categories of Intermodulation (IM) interference. They are receiver produced, transmitter produced, and "other" radiated IM. Transmitter produced IM is the result of one or more transmitters impressing a signal in the non-linear final output stage circuitry of another transmitter, usually via antenna coupling. The IM product frequency is then re-radiated from the transmitter's antenna. Receiver produced IM is the result of two or more transmitter signals mixing in a receiver RF amplifier or mixer stage when operating in a non-linear range. "Other" radiated IM is the result of transmitter signals mixing in other non-linear junctions. These junctions are usually metallic, such as rusty bolts on a tower, dissimilar metallic junctions, or other non-linear metallic junctions in the area. IM products can also be caused by non-linearity in the transmission system such as antenna, transmission line, or connectors.

This IM study has been performed to predict IM products that could be generated by the potential new frequencies as they are used at the Fire Station 1 Site after Rebanding. The Fire Station 1 Site is one of the sites used in Hialeah, FL project. During rebanding, 15 channels located in the 821 MHz sub-band used at the Fire Station 1 Site, owned by the Hialeah, FL will move to the 806 MHz band. All frequencies included in this intermodulation study are a result of information provided to Motorola during data collection exercise.

## Analysis Factors:

Following are the frequencies used in generating the Hialeah, FL IM report:



Red (**bold**) frequencies in the table are new rebanding frequencies at the site. Blue frequencies in the table are frequencies at the site that did not change due to rebanding.

	Transmit Frequency:	Receive Frequency:	Owner
1.	853.825	808.825	Hialeah, FL
2.	853.3	808.3	Hialeah, FL
3.	852.1625	807.1625	Hialeah, FL
4.	852.5875	807.5875	Hialeah, FL
5.	851.25	806.25	Hialeah, FL
6.	853.325	808.325	Hialeah, FL
7.	852.85	807.85	Hialeah, FL
8.	851.7875	806.7875	Hialeah, FL
9.	852.2	807.2	Hialeah, FL
10.	851.1625	806.1625	Hialeah, FL
11.	806.0125	851.0125	Hialeah, FL
12.	806.5125	851.5125	Hialeah, FL
13.	807.0125	852.0125	Hialeah, FL
14.	807.5125	852.5125	Hialeah, FL
15.	808.0125	853.0125	Hialeah, FL

The analysis calculates possible IM product frequencies through the seventh (7<sup>th</sup>) order that could potentially interfere with receivers at the communications site based on each receiver's individual bandwidth. The results can be used to develop an IM mitigation strategy. The parameters that affect the IM product calculations are: Order of IM products, the number of transmitters, the number of harmonics, and the half window (bandwidth) of the receiver. Following are the parameters used for the Hialeah, FL IM analysis:

Minimum Number Transmitters = 2  
Maximum Number Transmitters = 7  
Minimum Order = 2  
Maximum Order = 7  
Minimum Harmonic = 1  
Maximum Harmonic = 6  
Half Window = 25 kHz

The product order is equal to the harmonic multiples of the transmitter frequencies added together. For this IM analysis, 3<sup>rd</sup>, 5<sup>th</sup> and 7<sup>th</sup> order IM study reports were created. There is a possibility of higher order IM product interference. As the product order increases, the magnitude of the interfering signal decreases. Once the magnitude of the signal drops below the sensitivity of the target receiver, it is considered a minimal threat. For this reason 7<sup>th</sup> order is the maximum product order considered in this analysis. To generate 7<sup>th</sup> order IM products, the maximum of 7 transmitters are required to broadcast simultaneously, or a

combination sum of the harmonic factors of the transmitters is equal to 7(e.g. 3A+4B or 3A-4B).

Harmonic represents the multiple of the original transmitter's carrier frequency. The greater the harmonic multiple of a transmitter signal, the lower the power will be relative to the transmitter signal and therefore, the smaller the level of the interfering signal. For the 7<sup>th</sup> order IM products, the maximum harmonic required is 6 for minimum two transmit frequency assuming that one transmitter alone will not create IM interference.

Half window of the receiver is the most critical parameter which takes into consideration the receiver bandwidth. During calculation, Hydra checks IM products within (+/- (Half window) KHz) of all Rx frequencies. For this analysis 25 KHz was used as receiver half bandwidth.

## Analysis Results:

Hydra was used to generate a 3<sup>rd</sup>, 5<sup>th</sup>, and 7<sup>th</sup> order IM report for all 800 MHz frequencies located at this site.

\*\*\*\*\*

### Intermod Hits Summary

RX ID	RX Frequency	Total Hits	Direct Hits
1	808.825	1802	361
2	808.3	1943	419
3	807.1625	2244	443
4	807.5875	2349	479
5	806.25	2085	403
6	808.325	1974	382
7	807.85	2085	448
8	806.7875	2115	384
9	807.2	2174	426
10	806.1625	2114	411
11	851.0125	2035	375
12	851.5125	2251	466
13	852.0125	2250	449
14	852.5125	2413	461
15	853.0125	2318	462

### Intermod Hits By Order

RX ID	RX Frequency	Order 3	Order 5	Order 7
1	808.825	2	87	1713
2	808.3	2	111	1830
3	807.1625	6	167	2071
4	807.5875	7	189	2153
5	806.25	4	135	1946
6	808.325	2	110	1862



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7	807.85	1	136	1948
8	806.7875	5	124	1986
9	807.2	4	160	2010
10	806.1625	2	144	1968
11	851.0125	5	141	1889
12	851.5125	5	143	2103
13	852.0125	1	178	2071
14	852.5125	5	141	2267
15	853.0125	4	150	2164

Intermod Hits By Number of Transmitters

RX ID	RX Frequency	2 TXs	3 TXs	4 TXs	5 TXs	6 TXs	7 TXs
1	808.825	0	7	92	481	770	452
2	808.3	0	8	107	486	819	523
3	807.1625	0	11	133	557	911	632
4	807.5875	0	14	133	603	936	663
5	806.25	0	12	120	549	862	542
6	808.325	0	7	105	530	828	504
7	807.85	0	6	115	538	862	564
8	806.7875	0	12	115	492	908	588
9	807.2	0	8	141	516	924	585
10	806.1625	0	9	124	557	855	569
11	851.0125	6	16	125	527	811	550
12	851.5125	2	25	171	535	878	640
13	852.0125	0	20	163	537	914	616
14	852.5125	1	30	154	581	981	666
15	853.0125	3	17	169	539	969	621

Grand Total Hits: 32152

As seen in the report, The Intermodulation (IM) study indicates some 3<sup>rd</sup>, 5<sup>th</sup> and 7<sup>th</sup> order intermodulation products received by the newly rebanded 800 MHz frequencies at the Fire Station 1 Site. These IM products are caused by mixing of newly rebanded transmit frequencies at the site. The total number of direct and indirect 3<sup>rd</sup> order IM products caused by the mixing of newly rebanded frequencies is 55. The total number of direct and indirect 5<sup>th</sup> order IM products caused by the mixing of newly rebanded frequencies is 2116. The total number of direct and indirect 7<sup>th</sup> order IM products caused by the mixing of newly rebanded frequencies is 29,981. Any even order IM products are prevented by the equipment design of the system.

The presence of IM products does not necessarily indicate an IM hit. To evaluate the impact of direct and indirect IM products, further investigation is needed which could include identification of mixing point, determining probability of transmission on each frequency, power level at mixing point, etc. Generally 5<sup>th</sup> order IM products have a lower impact than 3<sup>rd</sup> order, but can cause significant IM problems if the power level at the mixing point is high, further investigation would be needed. The severity of the 7<sup>th</sup> order IM products is relatively low and can be ignored if the power level is low.

These results were generated assuming the presence of only the frequencies mentioned in Analysis Factor section. If there is a change in the frequencies used at the site, another IM analysis should be done to re-evaluate the impact of intermodulation.

## Recommendations:

1. Avoid using frequencies that have direct 3<sup>rd</sup> order IM products or create direct 3<sup>rd</sup> order IM products.
2. Not all of the mixing possibilities are significant in creating interference signals. Higher order IM products are usually weaker in signal strength. Also, the interference depends on the power level of the mixing signal. Impact of higher order IM products can be mitigated by controlling the power level of the mixing signal.
3. Provide separate transmit and receive cables. This would move the mixing point far from both the transmitters and receivers resulting in less probability of an IM problem.
4. Replace all connectors in the system with premium grade connectors where VHF, lower UHF, and 800MHz frequencies are present.
5. In addition to the connectors, quality components should be used throughout the system, such as power dividers and cross-band couplers. The installation must always be of the highest quality. A premium component will cause problems if not installed properly.
6. Direct IM products are more significant than indirect IM products. The impact of indirect IM products will depend on signal level and how far apart is the IM product from the receiver frequency.

## Disclaimer:

Intermodulation distortion products (IM) are always present where two or more collocated transmitters are operating simultaneously. Managing the power levels of the IM signals developed through proper system design will determine whether they cause harmful interference to communications.

The IM analysis is simply one of the tools used to guide proper design and must be used by a trained technical person competent to understand its meaning and limitations. The appearance of an IM product in the analysis does not mean such a product will cause harmful interference, or indeed even be present. It simply indicates the mathematical possibility of a product being produced.



**800 MHz Re-banding  
Police Dispatch Site, Hialeah, FL  
Intermodulation Analysis**

**Government & Commercial Markets - Americas**

**Version D01.00.01**

Date: October 19, 2007



## Intermodulation Summary:

During rebanding, 10 channels located in the 821 MHz sub-band used at the Police Dispatch Site, owned by the Hialeah, FL will move to the 806 MHz band. Also, there is one 950 MHz frequency, two 470 MHz frequencies, and eight 150 MHz owned by Hialeah, FL at the Police Dispatch Site. Complete frequency information is listed in the Analysis Factors section of this report.

The Intermodulation (IM) study indicates no 3<sup>rd</sup> and 5<sup>th</sup> order intermodulation products received by the newly rebanded 800 MHz frequencies at the Police Dispatch Site. The Intermodulation study does indicate minor 7<sup>th</sup> order intermodulation products received by the newly rebanded frequencies. These IM products are caused by mixing of newly rebanded transmit frequencies and other existing frequencies at the site. The total number of direct and indirect 7<sup>th</sup> order IM products caused by the mixing of newly rebanded frequencies is 95.

The Intermodulation (IM) study does indicate some 3<sup>rd</sup>, 5<sup>th</sup> and 7<sup>th</sup> order intermodulation products received by the other existing frequencies at the Police Dispatch Site. These IM products are caused by mixing of newly rebanded transmit frequencies and other existing frequencies at the site. The total number of direct and indirect 3<sup>rd</sup> order IM products caused by the mixing of newly rebanded frequencies is 39. The total number of direct and indirect 5<sup>th</sup> order IM products caused by the mixing of newly rebanded frequencies is 1999. The total number of direct and indirect 7<sup>th</sup> order IM products caused by the mixing of newly rebanded frequencies is 51510.

VHF channels are usually spaced very close to one another which can result in intermodulation hits. It should be noted that simplex channels may cause IM products, but the receiver and transmitter in these stations are never engaged simultaneously and should be disregarded when the transmitter of the simplex frequency registers IM products upon its own receiver as is the case in this scenario.

The detailed intermodulation analysis is included in the following sections.

## Analysis Introduction:

Intermodulation (IM) products are generated whenever two or more transmit frequencies mix together. If there is more than one transmit frequency at a site an IM analysis is necessary to check for possible IM interference problems. There are three basic categories of Intermodulation (IM) interference. They are receiver produced, transmitter produced, and "other" radiated IM. Transmitter produced IM is the result of one or more transmitters impressing a signal in the non-linear final output stage circuitry of another transmitter, usually via antenna coupling. The IM product frequency is then re-radiated from the transmitter's antenna. Receiver produced IM is the result of two or more transmitter signals mixing in a receiver RF amplifier or mixer stage when operating in a non-linear range. "Other" radiated IM is the result of transmitter signals mixing in other non-linear junctions. These junctions are usually metallic, such as rusty bolts on a tower, dissimilar metallic

junctions, or other non-linear metallic junctions in the area. IM products can also be caused by non-linearity in the transmission system such as antenna, transmission line, or connectors.

This IM study has been performed to predict IM products that could be generated by the potential new frequencies as they are used at the Police Dispatch Site after Rebanding. The Police Dispatch Site is one of the sites used in Hialeah, FL project. During rebanding, 10 channels located in the 821 MHz sub-band used at the Police Dispatch Site, owned by the Hialeah, FL will move to the 806 MHz band. Also, there is one 950 MHz frequency, two 470 MHz frequencies, and eight 150 MHz owned by Hialeah, FL at the Police Dispatch Site. All frequencies included in this intermodulation study are a result of information provided to Motorola during data collection exercise.

## Analysis Factors:

Following are the frequencies used in generating the Hialeah, FL IM report:

Red (**bold**) frequencies in the table are new rebanding frequencies at the site. Blue frequencies in the table are frequencies at the site that did not change due to rebanding.

	Transmit Frequency:	Receive Frequency:	Owner
1.	<b>853.825</b>	<b>808.825</b>	Hialeah, FL
2.	<b>853.3</b>	<b>808.3</b>	Hialeah, FL
3.	<b>852.1625</b>	<b>807.1625</b>	Hialeah, FL
4.	<b>852.5875</b>	<b>807.5875</b>	Hialeah, FL
5.	<b>851.25</b>	<b>806.25</b>	Hialeah, FL
6.	<b>853.325</b>	<b>808.325</b>	Hialeah, FL
7.	<b>852.85</b>	<b>807.85</b>	Hialeah, FL
8.	<b>851.7875</b>	<b>806.7875</b>	Hialeah, FL
9.	<b>852.2</b>	<b>807.2</b>	Hialeah, FL
10.	<b>851.1625</b>	<b>806.1625</b>	Hialeah, FL
11.	953.40625	928.40625	Hialeah, FL
12.	470.5625	473.5625	Hialeah, FL
13.	470.8875	473.8875	Hialeah, FL
14.	154.77	158.85	Hialeah, FL
15.	154.995	158.76	Hialeah, FL
16.	155.88	158.955	Hialeah, FL
17.	155.61	155.61	Hialeah, FL
18.	155.37	155.37	Hialeah, FL
19.	153.8	155.82	Hialeah, FL
20.	155.745	153.845	Hialeah, FL
21.	153.575	158.235	Hialeah, FL

The analysis calculates possible IM product frequencies through the seventh (7<sup>th</sup>) order that could potentially interfere with receivers at the communications site based on each receiver's individual bandwidth. The results can be used to develop an IM mitigation strategy. The parameters that affect the IM product calculations are: Order of IM products, the number of transmitters, the number of harmonics, and the half window (bandwidth) of the receiver. Following are the parameters used for the Hialeah, FL IM analysis:

Minimum Number Transmitters = 2  
Maximum Number Transmitters = 7  
Minimum Order = 2  
Maximum Order = 7  
Minimum Harmonic = 1  
Maximum Harmonic = 6  
Half Window = 25 kHz

The product order is equal to the harmonic multiples of the transmitter frequencies added together. For this IM analysis, 3<sup>rd</sup>, 5<sup>th</sup> and 7<sup>th</sup> order IM study reports were created. There is a possibility of higher order IM product interference. As the product order increases, the magnitude of the interfering signal decreases. Once the magnitude of the signal drops below the sensitivity of the target receiver, it is considered a minimal threat. For this reason 7<sup>th</sup> order is the maximum product order considered in this analysis. To generate 7<sup>th</sup> order IM products, the maximum of 7 transmitters are required to broadcast simultaneously, or a combination sum of the harmonic factors of the transmitters is equal to 7 (e.g. 3A+4B or 3A-4B).

Harmonic represents the multiple of the original transmitter's carrier frequency. The greater the harmonic multiple of a transmitter signal, the lower the power will be relative to the transmitter signal and therefore, the smaller the level of the interfering signal. For the 7<sup>th</sup> order IM products, the maximum harmonic required is 6 for minimum two transmit frequency assuming that one transmitter alone will not create IM interference.

Half window of the receiver is the most critical parameter which takes into consideration the receiver bandwidth. During calculation, Hydra checks IM products within (+/- (Half window) KHz) of all Rx frequencies. For this analysis 25 KHz was used as receiver half bandwidth.

## Analysis Results:

Hydra was used to generate a 3<sup>rd</sup>, 5<sup>th</sup>, and 7<sup>th</sup> order IM report for all 800 MHz frequencies located at this site.

\*\*\*\*\*

Intermod Hits Summary

RX ID	RX Frequency	Total Hits	Direct Hits
1	808.825	29	0
2	808.3	25	0
3	807.1625	24	0
4	807.5875	17	1
5	806.25	29	1
6	808.325	24	0
7	807.85	21	0
8	806.7875	20	0
9	807.2	21	0
10	806.1625	22	0
11	928.40625	716	0
12	473.5625	2363	156
13	473.8875	2105	140
14	158.85	4719	188
15	158.76	4907	246
16	158.955	4675	213
17	155.61	7406	161
18	155.37	7687	369
19	155.82	7708	516
20	153.845	7174	461
21	158.235	5503	284

Intermod Hits By Order

RX ID	RX Frequency	Order 3	Order 5	Order 6	Order 7
1	808.825	0	0	2	27
2	808.3	0	0	6	19
3	807.1625	0	0	20	4
4	807.5875	0	0	9	8
5	806.25	0	0	27	2
6	808.325	0	0	5	19
7	807.85	0	0	11	10
8	806.7875	0	0	19	1
9	807.2	0	0	17	4
10	806.1625	0	0	21	1
11	928.40625	0	3	12	701
12	473.5625	1	69	1	2292
13	473.8875	0	51	1	2053
14	158.85	0	145	0	4574
15	158.76	0	143	0	4764
16	158.955	1	134	0	4540
17	155.61	10	361	0	7035
18	155.37	13	376	0	7298
19	155.82	11	386	0	7311
20	153.845	13	337	0	6824
21	158.235	0	175	0	5328



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Intermod Hits By Number of Transmitters

RX ID	RX Frequency	2 TXs	3 TXs	4 TXs	5 TXs	6 TXs	7TXs
1	808.825	0	1	3	19	6	0
2	808.3	0	0	4	14	7	0
3	807.1625	0	0	9	13	2	0
4	807.5875	0	0	7	6	4	0
5	806.25	0	0	8	19	2	0
6	808.325	0	0	3	13	8	0
7	807.85	0	1	5	12	3	0
8	806.7875	0	0	9	10	1	0
9	807.2	0	0	10	10	1	0
10	806.1625	0	0	6	15	1	0
11	928.40625	0	12	67	243	292	102
12	473.5625	0	7	57	326	960	1013
13	473.8875	1	7	51	314	869	863
14	158.85	0	13	168	847	2087	1604
15	158.76	0	10	157	926	2180	1634
16	158.955	1	16	160	853	2024	1621
17	155.61	1	22	229	1297	2907	2950
18	155.37	0	21	255	1366	2987	3058
19	155.82	0	31	258	1367	3050	3002
20	153.845	2	31	254	1293	2775	2819
21	158.235	0	14	184	1057	2440	1808

Grand Total Hits: 55195

As seen in the report, The Intermodulation (IM) study indicates no 3<sup>rd</sup> and 5<sup>th</sup> order intermodulation products received by the newly rebanded 800 MHz frequencies at the Police Dispatch Site. The Intermodulation study does indicate minor 7<sup>th</sup> order intermodulation products received by the newly rebanded frequencies. These IM products are caused by mixing of newly rebanded transmit frequencies and other existing frequencies at the site. The total number of direct and indirect 7<sup>th</sup> order IM products caused by the mixing of newly rebanded frequencies is 95.

The Intermodulation (IM) study does indicate some 3<sup>rd</sup>, 5<sup>th</sup> and 7<sup>th</sup> order intermodulation products received by the other existing frequencies at the Police Dispatch Site. These IM products are caused by mixing of newly rebanded transmit frequencies and other existing frequencies at the site. The total number of direct and indirect 3<sup>rd</sup> order IM products caused by the mixing of newly rebanded frequencies is 39. The total number of direct and indirect 5<sup>th</sup> order IM products caused by the mixing of newly rebanded frequencies is 1999. The total number of direct and indirect 7<sup>th</sup> order IM products caused by the mixing of newly rebanded frequencies is 51510.

VHF channels are usually spaced very close to one another which can result in intermodulation hits. It should be noted that simplex channels may cause IM products, but the receiver and transmitter in these stations are never engaged simultaneously and should be disregarded when the transmitter of the simplex frequency registers IM products upon



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its own receiver as is the case in this scenario. Any even order IM products are prevented by the equipment design of the system.

The presence of IM products does not necessarily indicate an IM hit. To evaluate the impact of direct and indirect IM products, further investigation is needed which could include identification of mixing point, determining probability of transmission on each frequency, power level at mixing point, etc. Generally 5<sup>th</sup> order IM products have a lower impact than 3<sup>rd</sup> order, but can cause significant IM problems if the power level at the mixing point is high, further investigation would be needed. The severity of the 7<sup>th</sup> order IM products is relatively low and can be ignored if the power level is low.

These results were generated assuming the presence of only the frequencies mentioned in Analysis Factor section. If there is a change in the frequencies used at the site, another IM analysis should be done to re-evaluate the impact of intermodulation.

## Recommendations:

1. Avoid using frequencies that have direct 3<sup>rd</sup> order IM products or create direct 3<sup>rd</sup> order IM products.
2. Not all of the mixing possibilities are significant in creating interference signals. Higher order IM products are usually weaker in signal strength. Also, the interference depends on the power level of the mixing signal. Impact of higher order IM products can be mitigated by controlling the power level of the mixing signal.
3. Provide separate transmit and receive cables. This would move the mixing point far from both the transmitters and receivers resulting in less probability of an IM problem.
4. Replace all connectors in the system with premium grade connectors where VHF, lower UHF, and 800MHz frequencies are present.
5. In addition to the connectors, quality components should be used throughout the system, such as power dividers and cross-band couplers. The installation must always be of the highest quality. A premium component will cause problems if not installed properly.
6. Direct IM products are more significant than indirect IM products. The impact of indirect IM products will depend on signal level and how far apart is the IM product from the receiver frequency.

## Disclaimer:

Intermodulation distortion products (IM) are always present where two or more collocated transmitters are operating simultaneously. Managing the power levels of the IM signals developed through proper system design will determine whether they cause harmful interference to communications.

The IM analysis is simply one of the tools used to guide proper design and must be used by a trained technical person competent to understand its meaning and limitations. The appearance of an IM product in the analysis does not mean such a product will cause harmful interference, or indeed even be present. It simply indicates the mathematical possibility of a product being produced.

**ATTACHMENT B**

**SUITABILITY ASSESSMENT IMPACT REPORT  
(SAIR)**



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## **Suitability Assessment Impact Report**

Licensee Name: HIALEAH - CITY OF, FL

Customer Name: City of Hialeah, FL

Submitted by: Motorola, Inc.

System Type: SIMULCAST

Preparation Date: Wednesday, February 20, 2008

*The content of this report is dependent upon the data entered into the inventory workbook as supplied by the Customer or the Customer's agent*

*Concerning the Suitability Assessment Process, Motorola has completed its preliminary evaluation and has determined that the products listed in the inventory you provided will be impacted as described in the following text. However, Motorola may perform additional regression tests as required on these products. In the unlikely event the regression testing indicates the above information is incorrect, Motorola will gladly provide corrected information to you and advise you of the effects of rebanding; further, if it is appropriate, Motorola will provide to you a quote for software, hardware or services to address the effects of rebanding.*

### **Impact to Base Stations or Repeaters**

Retune the Non-IR Quantar base station new frequency with existing Quantar RSS  
Conventional Base Station - Retune the Non-IR Quantar base station new frequency with existing Quantar RSS

### **Impact to System Controllers**

Open an Upgrade Operations CASE to order new 6809 rebanding codeplug(s) with Type II only fleet map for the Prime Site Controller. Rebanding software does not support Type I fleets.

Replace the 6809 Central Site Controller (CSC) firmware with version R36.20.03  
Open an upgrade Operations CASE to order new Rebanding 6809 CSC firmware R36.20.03 for the prime site controller(s).

### **Impact to Management Terminals**

Replace SIMS II with new Genesis GW3HC product.

Replace SyntorX or Spectra RF Modem with an MCS2000 RF Modem and retune with RVN4175T CPS software

The GenWatch 3 product uses LAN/WAN IP connectivity between the server and user terminals. Ensure IP connectivity between sites.

Replace SIP with new Genesis GW3LE product.

Flash the MCS2000 RFM Modem with rebanding firmware and retune with RVN4175T CPS software

### **Impact to Subscribers**

Flash the ASTRO Spectra Plus radio with rebanding software and retune the radio with new rebanding CPS.

Flash the MCS2000 mobile with rebanding firmware then retune with new RVN 4175T CPS software

Replace Spectra Radios with XTL2500RB including dual control head. For (W9/C9 remote mount, or Motorcycle installations) replace with XTL5000 retune with new rebanding CPS RVN4185T. If the Customer requires equivalent form factor for C7/W7 replace with XTL5000.

If the Spectra Console is operating in the NPSPAC Trunking range then replace with XTL5000 console and program with new RVN4185T CPS software.

The subscriber radio listed in the inventory could not be located in the database. Please contact Motorola to determine the rebanding requirements.

XTL1500 radios shipped after Jan. 2006 retune with new RVN4185T CPS software.

XTL2500 radios shipped after Jan. 2006 retune with new RVN4185T CPS software.

XTL5000 radios shipped before Feb. 2006 flash with rebanding firmware then retune with new RVN4185T CPS software.

XTL5000 radios shipped after Jan. 2006 retune with new RVN4185T CPS software.

XTS1500 radios shipped before Feb. 2006 flash with rebanding firmware then retune with new RVN4181T CPS software. Radios shipped after Jan. 2006 retune with new RVN4181T CPS software.

XTS1500 radios shipped after Jan. 2006 retune with new RVN4181T CPS software.

XTS2500 radios shipped before Feb. 2006 flash with rebanding firmware then retune with new RVN4181T CPS software.

XTS2500 radios shipped after Jan. 2006 retune with new RVN4181T CPS software.

XTS5000 radios shipped before Feb. 2006 flash with rebanding firmware then retune with new RVN4181T CPS software. Radios shipped after Jan. 2006 retune with new RVN4181T CPS software.

XTS5000 radios shipped after Jan. 2006 retune with new RVN4181T CPS software.

For ASTRO Spectras with 1 MegaByte memory and a codeplug size less than 28 Kbyte flash with rebanding firmware then retune with new RVN4183S CPS software

For MTS2000 radio with 512 Kbyte memory and codeplug size less than 13.5 Kbyte flash with rebanding firmware then retune with new RVN4176S CPS software

MTS2000 radios manufactured between June 1993 and June 1997. First read the radio and program with CPS and archive the programming file. Once done use the Updater Tool to update the firmware. Proceed to normal flashing procedures.

For MTS2000 (Model III or II, Encry, > 48Ch) with 256Kb memory or codeplug size greater than 13.5 Kbyte replace with XTS2500RB III. For Model I MTS2000 (256K or codeplug size > 13.5K) replace with XTS2500RB Model 1.5 then retune with new RVN4181T CPS. If a Converta-Com or MTVA is used replace with XTS5000 and XTVA.

### **Impact to RF Antenna Site Equipment**

Retune each transmitter combiner port of the TX RX transmitter combiner for the new frequency

Call Bird Technologies/TX RX to get replacement Window filters for new frequency range

Call Bird Technologies/TX RX to get replacement filters for the Bi-Directional Amplifier new frequency range

No action required for the receive antenna

No action required for the transmit antenna

Motorola has determined that TV channel 69 broadcasts in your area. Channel 69 TV transmitters can produce spurious emissions in the new NPSPAC frequency segment while remaining completely legal. Such interference must be addressed at the source, therefore Motorola has not included any solutions for interference involving TV channel 69 frequencies should it occur.

### **Impact to Dispatch Console Systems**

No change required for CENTRACOM II Gold Elite console systems

### **Impact to MOSCAD Sub-Systems**

For MTS2000 radios with 512K memory flash the MTS2000 with Rebanding software then retune with new CPS.

Flash MCS2000 radio with rebanding firmware then retune using new RSS/CPS

## ***ATTACHMENT C***

### ***FUNCTIONAL ACCEPTANCE TEST PROCEDURES (FATP)***



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## FUNCTIONAL ACCEPTANCE TEST PROCEDURES

for:

**City of Hialeah, FL**

Prepared by:



## Trunking Features

### Talkgroup Call

#### 1. DESCRIPTION

The talkgroup call is the primary level of organization for communications on a trunked radio system. Radios with talkgroup call capability will be able to communicate with other members of the same talkgroup.

Radio users can select between the different talkgroups that are programmed in the radio using a manual switch or keypad.

#### SETUP

RADIO-1 - TALKGROUP 1  
RADIO-2 - TALKGROUP 1

#### 2. TEST

Step 1. Initiate a clear talkgroup call with RADIO-1.

Step 2. Verify communication with RADIO-2.

Pass \_\_\_\_ Fail \_\_\_\_



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## Trunking Features

Console Talkgroup Call –  
Clear Mode

### 1. DESCRIPTION

A call from a subscriber unit to a console is indicated on each dispatch operator position that has a resource window associated with the channel the subscriber unit is transmitting on.

When a subscriber keys on a talkgroup that the console has selected, the subscriber's audio comes out of the select speaker of the console.

### SETUP

RADIO-1 - TALKGROUP 1  
CONSOLE - TALKGROUP 1

### 2. TEST

- Step 1. The console operator selects the TALKGROUP 1 resource window.
- Step 2. Transmit on RADIO-1 in the clear mode.
- Step 3. Verify that the console hears audio through the select speaker.
- Step 4. Transmit on console in the clear mode, verify communication with RADIO-1.

Pass \_\_\_\_ Fail \_\_\_\_

## Trunking Features

### Control Channel Rotation

#### 1. DESCRIPTION

In the event that the assigned control channel fails, the Central Controller automatically selects one of the other eligible channels as the active control channel.

The Central Controller will automatically rotate the control channel at midnight each night.

Assignment of the control channel falls into two categories: assignment when the system comes into trunking operation and reassignment after a control channel failure or at assigned rotation times.

#### 2. TEST

Step 1. Verify that the control channel is channel 1.

Step 2. Front panel disable the active control channel.

Step 3. Verify that the control channel has rotated to the next available channel and is processing calls.

Step 4. Disable the control channel via the SMT CHAN command.

Step 5. Verify that the control channel has rotated to the next available channel and is processing calls.

Pass \_\_\_\_ Fail \_\_\_\_



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## Radio to Radio Features

Conventional Radio Resource Call – Clear Mode
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### 1. DESCRIPTION

Subscribers can communicate to each other through the repeater that they are selected on via the channel selector on the individual radio.

The signals that are received by the subscriber radio are repeated so that other radios on that channel will be able to hear and participate in the conversation.

### SETUP

RADIO-1 - CHANNEL 1  
RADIO-2 - CHANNEL 1

### 2. TEST

- Step 1. Initiate a call on RADIO-1.
- Step 2. Verify communications on RADIO-2.
- Step 3. Initiate a call on RADIO-2.
- Step 4. Verify communications with RADIO-1.
- Step 5. Repeat for each conventional channel.

Pass\_\_\_\_\_ Fail\_\_\_\_\_

## Signoff Certificate

By their signatures below, the following witnesses certify they have observed the In-Field System Verification Test Procedures.

Signatures

LICENSEE WITNESS:

Date: \_\_\_\_\_

Please Print Name: \_\_\_\_\_



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***ATTACHMENT D***

***RF PERFORMANCE VERIFICATION PLAN***



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## RF Performance Verification Plan

The City of Hialeah, FL, operates and maintains a 3 site, 10 channel, SmartNet II+ Simulcast trunking system that provides service for public safety and public service users throughout the Hialeah, FL, area of service.

RF performance verification procedures for systems of this type are defined by the Transition Administrator (TA) as follows:

### Method 1 – Repeater Site Measurements

This method is appropriate for sites where reconfiguration does not require substantial changes to the antenna or coax feed line. This method can be used if other transmission elements such as transmitter combiners, or filtering devices change, if those changes do not result in a change to the transmit power into the feed line. For those systems where the transmit power to the feed line does not change, it is sufficient to make a series of measurements at the repeater site.

This method assumes all existing equipment is specified to operate with comparable losses for the new channels compared to the existing channels. If the antenna bandwidth specifications include the new channels, then the radiated pattern and signal strength should not change assuming that equivalent transmit power is delivered to the antenna.

Prior to reconfiguring RF components at a site, measured losses for each component are recorded including the transmit power entering the antenna's transmission line (baseline measurements). The measurements should include the return loss of the transmission line and antenna. After reconfiguration, the same measurements are made and compared to the baseline measurements. If the two sets of measurements are comparable, then RF performance will be comparable.

The RF performance verification plan that follows has been designed to closely align with the Transition Administrator's guidance.

## RF Performance Verification Plan

Before a device is rebanded, it will be inspected for any pre-existing defects that may impede the rebanding process. Motorola will report all identifiable defects to Hialeah, FL. It will be the Agency's responsibility to correct these issues through its normal service channels prior to rebanding.

### Verification Procedures

These checks will be performed on each applicable base station prior to changing the frequency.

#### Transmitter

- Measure and record the frequency.
- Measure and record the transmit RF power output
- Measure and record the transmitter modulation deviation.

Receiver

- Measure and record the frequency
- Measure and record the sensitivity (SINAD or BER).
- Measure and record the effective receiver sensitivity.

These checks were performed on each applicable transmit combiner component (and if applicable duplexer) prior to changing the frequency.

Combiner

- Measure and record the transmit RF power into each port of the combiner or station duplexer.
- Measure and record the transmit RF power out of the combiner or duplexer for each applicable channel.
- Measure and record the reflected RF power from the antenna.

The Tower Mounted Amplifier and Multicoupler checks to perform are:

TMA/Multicoupler

- Measure and record the system gain.
- Measure and record the bandwidth of filters (\*).
- Measure and record the noise floor in the pass-band (\*).

Antenna

- Measure and record antenna bandwidth (\*).
- Sweep and record antenna feed-line (\*).

If proof of the results for items labeled with an asterisk (\*) can be obtained from previous system tests or model number information it can be used for this requirement.

Once these tests are completed, the trunking system will be rebanded and the tests repeated. The results of both exercises will be compared and the findings presented to Hialeah, FL, for approval.

### Method 3 - Drive Test

This is the most complex and expensive method for determining comparable coverage, and is typically only appropriate for complex systems using simulcast technology, or where extensive changes are made to the antenna and other transmission subsystem elements.

The drive test must be set up to be repeatable and based on a statistically valid method of measurement that minimizes the number of grids to be measured. As for the previous methods, testing should be performed immediately prior to, and after rebanding, to ensure location variability is minimized. The test need not include building penetration tests if the measurement grids are designed to show the signal strength around the buildings. If the signal levels are comparable in a statistically valid, random number of grid areas throughout the coverage area, then signal levels should be comparable in areas not measured.

### Method 3 - Drive Test Procedures

Per the request of The City of Hialeah, FL, Motorola will perform a detailed Coverage Performance Analysis. The purpose of the analysis is to compare coverage performance of Hialeah, FL's communications system before and after Rebanding. Motorola will gather coverage data for the system. First, a Coverage Performance Baseline (CPB) Analysis will take place before any RF-sensitive equipment is modified or replaced. This CPB will gather data similar to a coverage analysis. It is not intended to determine the full extent of the system's coverage, but to provide a baseline for comparison after all rebanding work is complete. The CPB will be performed on the street using Motorola Voyager test equipment installed in a vehicle. No in-building data will be collected.

At the completion of rebanding activities, Motorola will conduct a Coverage Baseline Verification (CBV) Analysis. The CBV will be performed identically to the CPB. The data from the CPB and CBV will be compared to verify that all rebanded equipment is operating comparably to its pre-rebanding state.

A Coverage Performance Plan (CPP) will be developed as part of the Coverage Performance Analysis. This CPP provides details of the CPB and CBV which will be performed. The CPP is based on analyzing approximately 600 accessible grids. Recommended grids used for coverage base-lining and verification will be located along limited access highways and other thoroughfares. Major streets may be added if additional grids are needed to provide an adequate quantity of samples. This "spider" shaped pattern provides for very fast collection of data, while providing a representative sample of a customer's entire service area.

Because of statistical probabilities, data collected from both activities will typically not be identical, even if the radio system is performing at an equal level. The quantity of passing analysis points from each data collection will be compared. If number of passing points in the final CBV compared to the passing points in the baseline CPB is within the prescribed percentage (Pre and post rebanding analysis points will be within 5% to prove comparable coverage) by the Coverage Performance Plan, the rebanding equipment will be judged as working properly. The individual passing points will not be compared, but only the total quantity of passing points from each activity.

Two teams will be used to collect data and teams will execute the drive analysis. Each team will include one Motorola to conduct and monitor the objective analysis.

Motorola will provide a report indicating the results of the coverage performance verification.

Per the TA, the **"focus of any testing must be on showing if comparable coverage is achieved"**. For these SmartNet system's channels, Motorola believes these procedures adequately meet this goal.

## ***ATTACHMENT E***

### ***CUTOVER & FALL BACK PLAN***

## **Hialeah Simulcast, Redundant 6809 SmartNet II Plus Controller**

### **Cutover and Fallback Plans**

#### **Overview**

Hialeah operates and maintains a 10 channel 3 site SmartNet II Plus Simulcast Trunking system that provides service for public safety and public service users throughout the Hialeah area of service. The Trunking channels are managed by a main and alternate SmartNet 6809 controller located at 83 east 5th Street Hialeah, FL.

The system will be reconfigured to meet Rebanding requirements and 10 of the 10 current channels will change frequencies at the sites. New rebanding firmware will be applied to the Trunked controllers, along with new replacement codeplugs that will include the rebanding frequencies and band plan.

All users affected by the required site outages will be informed of the date and time of the system reconfiguration, as well as the anticipated duration of the service disruption. A procedure will be implemented to permit Hialeah to delay the start of the site outage should a critical public safety event develop.

Teams will arrive on site well before the scheduled outage time to collect, record, and verify site information. Before proceeding with the rebanding, the transmitter combining system and the receive antenna system must be verified. A technologist will record which channel is connected to each combiner port.

The technologist will also use a simple over the air test to confirm receive antenna system performance in the in the band of frequencies required for the reconfiguration of the system.

It is important to collect pre-Rebanding performance information both to identify equipment that is in need of repair and to maintain current system performance. As an example, some control channels may be operating at reduced power to improve subscriber site roaming. These settings could be lost without careful pre-reconfiguration data collection.

#### **Cutover and Fallback**

The cutover plan must start with an assurance that the current system is operating as expected. This is accomplished by performing basic functionality tests to verify that all modes of operation are working to the expected level. If an issue is found then it should be resolved prior to commencing the reconfiguration process. Refer to the Functional Acceptance Test Procedures (FATP), in Attachment C, to understand what tests will be required to verify system operation.



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Before an effective cutover plan is can be implemented the current system configuration, programming, database files, etc., must be retrieved and archived in case they are needed to recover from a failure in the reconfiguration process. Further, each subsystem, whether it is impacted by reconfiguration or not, must be studied to determine how it operates within the overall system and what changes in each subsystem will impact others.

There are technical issues in recovery as well as customer operational issues that must be understood. Fixed Network Equipment (FNE) and subscribers need to be considered in a cutover plan. Any cutover plan would not be complete without considering the subscribers' impact on the system. A fallback plan for a subscriber is more like a preventative measure than a recovery. It is important that a sampling of subscribers should be reconfigured and then tested. If there is a problem, then the subscribers must be returned to previous programming or firmware and the issue resolved prior to reconfiguring the entire subscriber fleet.

The reconfiguration of a simulcast system has to be done on a channel by channel basis ensuring all tests, measurements, and alignments are complete on all stations and all sites prior to returning the channel to service.

The fallback plan is directly related to the system cutover plan. Each step or group of steps in the cutover plan should have a recovery process. The first step in the development of a fallback plan is to understand each step in the cutover plan and how it impacts the system. The fallback plan should be the reverse of the cutover plan process.

### Subscribers

#### Replacement Subscriber Retune Process

1. Select a new replacement radio to be retuned.
2. Perform a quick test of the radio to ensure it is working properly.

**If the radio does not work properly, submit it for repair under the repair procedures defined by the Hialeah contract or agreement with the assigned service provider, prior to proceeding with this unit.**

3. Program the radio with the customer approved template for this radio.
4. Test the radio to ensure it operates properly on the system.
5. Repeat steps 1 thru 4 for all new replacement radios.

#### Subscriber Flashing Process

**Use the following process to flash radios on a select number of radios first. Once the operation is verified, continue with the other radios.**

1. Select an existing radio to be flashed and programmed for reconfiguration.
2. Perform a quick test of the radio to ensure it is working properly.

**If the radio does not work properly, submit it for repair under the repair procedures defined by the Hialeah contract or agreement with the assigned service provider, prior to proceeding with this unit.**

3. Read the radio with the new CPS software.
4. Save the radio programming template to the computer.
5. Flash the radio with Rebanding firmware using the radio flashing procedure defined in the CPS software documentation.
6. Program the radio with the customer approved template for this radio. Ensure this is performed in such a manner that the new frequencies are scanned first.
7. Test the radio to ensure it operates properly on the system.
8. Repeat steps 1 thru 7 for all radios requiring a flash upgrade.

**Subscriber Retune only Process**

1. Select an existing radio to be retuned.
2. Perform a quick test of the radio to ensure it is working properly.

**If the radio does not work properly, submit it for repair under the repair procedures defined by the Hialeah contract or agreement with the assigned service provider, prior to proceeding with this unit.**

3. Read the radio with the new CPS software.
4. Save the radio programming template to the computer.
5. Program the radio with the customer approved template for this radio. Ensure this is performed in such a manner that the new frequencies are scanned first.
6. Test the radio to ensure it operates properly on the system.
7. Repeat steps 1 thru 7 for all radios requiring a retune.

**Retune Radio Process Second Touch removing the old conventional channels**

1. Select an existing radio to be retuned.
2. Perform a quick test of the radio to ensure it is working properly.

**If the radio does not work properly, submit it for repair under the repair procedures defined by the Hialeah contract or agreement, with the assigned service provider, prior to proceeding with this unit.**

3. Read the radio with the new CPS software.
4. Save the radio programming template to the computer.
5. Program the radio with the newly modified template for this radio. Ensure this is performed in such a manner that the new frequencies are scanned first.
6. Test the radio to ensure it operates properly on the system.
7. Repeat steps 1 thru 6 for all radios requiring a second touch retune to remove the old conventional channels.

## **Management Terminals**

### **SIMS**

1. Gather all the materials shipped with the GenWatch III and organize in a fashion to expedite installation.
2. Install and configure network equipment for local and remote IP links.
3. Ensure any IP links for remote terminals are functional.
4. Install the GenWatch III terminals and server in the desired location following the installation instructions from the manufacturer.
5. If not programmed at Genesis, program the Hialeah user database into the GenWatch III computer/server.
6. Replace Spectra RF modems with MCS2000 RF modems one modem at a time.
7. Notify Hialeah that the SIMS II will be removed from service, if using existing antennas. Once approved, proceed.
8. Verify the GenWatch III is working with the Hialeah system, by connecting the RF modems and serial links to the existing antennas and lines; or, if installing parallel antennas and lines, connect accordingly.
  - a. **If the GenWatch III is not functioning, open a sub-case to the rebanding case opened earlier, to get support from the SSC in diagnosing the problem. Return the antennas and lines to the existing SIMS II, if using existing antennas and lines.**
9. Verify that the CAD link serial port of the GenWatch III is working properly by monitoring the link RS232 output with the CAD simulator software from Genesis.
10. CAD connection? Move the CAD connection from the existing SIMS II computer to the GenWatch III computer.
11. Ensure the CAD link functions with the CAD system.
  - a. **If the CAD link does not work with the CAD system, return the connection to the existing SIMS II and diagnose the issue, with assistance from SSC and or Genesis, as well as the CAD vendor.**
12. Remove the existing SIMS II equipment and deliver to Sprint Nextel.

### **SIP**

1. Install the GenWatch III terminals in the desired location following the installation instructions from the manufacturer.
2. If not programmed at Genesis, program the Hialeah user database into the GenWatch III computer/server.
3. Notify Hialeah that the SIP will be removed from service, if using existing antennas. Once approved, proceed.
4. Verify the GenWatch III is working with the Hialeah system, by connecting the RF modems and serial links to the existing antennas and lines; or, if installing parallel antennas and lines, connect accordingly.



- a. **If the GenWatch III is not functioning, open a sub-case to the rebanding case opened earlier, to get support from the SSC, in diagnosing the problem. Return the antennas and lines to the existing SIMS II, if using existing antennas and lines.**
5. Flash the MCS2000 RF modem with the MCS2000 rebanding software
6. Remove the existing SIP equipment and deliver to Sprint Nextel.
7. Repeat steps 1 thru 6 for the remaining SIP terminals.

### **Bi-directional Amplifiers**

1. Verify by over-the-air test that the Bidirectional amplifier filters will pass the current system frequencies and that the BDA is functioning properly.
2. Notify Hialeah the BDA will be reconfigured and will not be available for use. Once approved, proceed.
3. Power off the BDA.
4. Replace the filters in the BDA with the supplied 18 MHz filters.
5. Power on the BDA.
6. Verify by over-the-air test that the Bidirectional amplifier filters will pass the current system frequencies and that the BDA is functioning properly.
7. Repeat steps 1 thru 7 for the remaining BDA's.
8. Repeat steps 1 thru 8 using the 5 MHz filters after the system frequencies have been reconfigured.

### **Tower Top AMP Filters**

1. Replace the Bird Technologies/TX RX tower top amplifier filters with new 18MHz filters at all three RF sites.
2. After system migration to the new frequencies is complete, Replace the Bird Technologies/TX RX tower top amplifier filters with the new 5 MHz filters.

### **Simulcast Redundant Controller System**

The following steps will be followed in order to reband the simulcast system. The plan has been formulated assuming 5 channels at a time will be disabled and retuned.

### **Pre-Work**

1. Notify the SSC that reconfiguration work is beginning at this site, by referring to the CASE that was opened when the reconfiguration project was started.
2. Gather and organize all components for rebanding in a logical order.



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3. Back up the SAC and MCB (if installed) records of the active Trunked Central controller and mark the media accordingly. Keep the backup at hand in case it's needed.
4. Record controller timing parameters.
5. Record the SAC T\*, I\* and Auth parameters.
6. Record if the SAC records are active in both prime controllers.
7. Record if the MCB records are active, if used.
8. Ensure that there is a working set of the customer's spare controller cards for the existing system configuration, if available.
9. Ensure that the customer's base station spares are at hand, if available. If not, explain this to the Customer and get agreement that a certain number of channels can be down until repairs can be made.
10. Ensure spare controller batteries are available for replacement on Central controller boards that require them.

#### **Primary Site**

1. Set up tools and test equipment.
2. Verify by over-the-air test that the receiver tower top amplifier and distribution amplifier filters will pass the new frequencies after reconfiguration (not required, if previously determined – see the SOW).
3. Record the channel frequency attached to each combiner port.
4. Read the stations with RSS/CPS and save the original programming on all sites.
5. Review the cutover plan. The cutover plan will have 2 codeplug iterations. The first codeplug will only change frequencies for channels 1, 3, 5, 7, and 9. The 2<sup>nd</sup> and final codeplug will change frequencies for channel 2, 4, 6, 8, and 10.
6. Notify Hialeah that the system will experience a short interruption while the controllers are switched
7. Test functionality of both Central controllers. Switch controllers from console system, if capable. If not, switch manually.

#### **If the system fails to operate properly, diagnose the problem, gathering diagnostics from the controller. Return original active controller to active.**

8. Disable T-Bar remote and automatic switching. This may require disconnecting the T-Bar signaling BIM from the T-Bar controller, if the system has a signaling BIM, and placing T-Bar controller in the manual mode.
9. Remove power from the Trunked off-line Central controller.
10. Install the rebanding firmware and the first codeplug in the off-line Central controller CSC card; as well as, replacing any other controller card firmware, or controller cards, required for this system reconfiguration.
11. Power on the off-line controller..
12. Verify off-line controller functionality via a local manager terminal connection.
13. Verify TIMI link status is in standby for both TIMI links for this controller.

14. Change controller timing parameters if customer's active board settings are different than the spare, or default.
15. If it has been determined that the SAC records must be active for the system to operate properly; reload SAC and MCB records, as needed, and activate subscriber access control. Note that this could take some time and should be planned ahead.

**Steps to this point should be performed prior to the designated time of cutover, if the SAC and MCB records are to be reloaded for the first codeplug iteration.**

16. Notify Hialeah the system will experience a short interruption, while the controllers are switched and that 5 trunk channels will be removed from service. Once approved proceed to the next step.

**If a failure of any pre-test is found, notify Hialeah of the issue and arrange for the equipment to be repaired by normal service channels, established by Hialeah.**

**If a failure occurs after reconfiguration, repair the device, or equipment, keeping a log of the time and parts required, for cost true up at the end of the project.**

17. Disable channels 1, 3, 5, 7, and 9 via the Transmitter Interface Board (TIB) switches in off-line controller.
18. Switch controllers, so that the controller with the new firmware and codeplug is active.
19. Ensure channels 2, 4, 6, 8, and 10 are functioning properly.

**If the system fails to operate properly, diagnose the problem, gathering diagnostics from the controller. Return service to the controller, with the original firmware and codeplug.**

20. Repeat steps 9 thru 19 for the 2<sup>nd</sup> prime site controller, utilizing codeplug iteration 1, chip 2.
21. Clear T-data alarms on T-Bar switch.
22. Return T-Bar switching control to normal.
23. Measure and record the pre-reconfiguration Rx sensitivity at the station and at the receiver multicoupler input for channels 1, 3, 5, 7 and 9 on all sites.
24. Measure and record the pre-reconfiguration receiver noise impact for channels 1, 3, 5, 7 and 9 on all sites.
25. Perform pre-rebanding Method I testing by measuring and recording the pre-reconfiguration Tx forward power into the combiner for channels 1, 3, 5, 7 and 9 on all sites. Log all data in the Motorola supplied spreadsheet.
26. Measure and record the pre-reconfiguration forward/reflected power out of the combiner for channels 1, 3, 5, 7 and 9 on all sites.
27. Change the frequency and align Tx power on repeaters 1, 3, 5, 7 and 9 on all sites.
28. Replace TX RX combiner critical length cables and tune the transmit combiner ports for channels 1, 3, 5, 7 and 9 on all sites.

29. Measure and record the post-reconfiguration Tx forward power into the combiner for channels 1, 3, 5, 7 and 9 on all sites.
30. Measure and record the post-configuration forward/reflected power out of combiner for channels 1, 3, 5, 7 and 9.
31. Perform Simulcast optimization on channels 1, 3, 5, 7 and 9 on all sites.
32. Measure and record the post-reconfiguration Rx sensitivity at the station and at the receiver multicoupler input for channels 1, 3, 5, 7 and 9 on all sites
33. Measure and record the post-reconfiguration receiver noise impact for channels 1, 3, 5, 7 and 9 on all sites
34. Enable the reconfigured channels 1, 3, 5, 7 and 9 one at a time at the TIB board and test the functionality by monitoring the call process on the channel.

**If the channel does not operate correctly, disable the channel, diagnose the issue, repair, then re-enable.**

35. Check with customer to verify system functionality is back to normal. Inform customer all channels are returned to service.

**At this point the system will be back to 10 channels. This would be a good stopping point in the cutover for a break. Do not start the cutover until enough resources are available to finish to this point in a single day. Do not proceed to the next step until enough resources are available to finish the cutover in a single day.**

36. Notify Hialeah the system upgrade has resumed and go over the cutover plan with the customer and set a time when the 2<sup>nd</sup> part of the cutover can occur.
37. Disable the T-Bar remote and automatic switching. This may require disconnecting the T-Bar signaling BIM from the T-Bar controller, if the system has a signaling BIM, and placing the T-Bar controller in the manual mode.
38. Remove power from the Trunked off-line Central controller.
39. Install the second (final) codeplug in the off-line controller CSC card.
40. Power on the off-line controller.
41. Verify the off-line controller functionality via a local manager terminal connection.
42. Verify TIMI link status is in standby, for both TIMI links for this controller.
43. If it has determined that the SAC records must be active for the system to operate properly, reload the SAC and MCB records and activate subscriber access control. Note that this could take some time and should be planned ahead.

**Task 36 thru 43 should be performed prior to the designated time of cutover, if the SAC and MCB records are to be reloaded prior to the second code plug iteration is enabled.**

44. Notify Hialeah the system will experience a short interruption, while the controllers are switched and that 5 trunk channels will be removed from service. Once approved, proceed to the next step.

**If a failure of any pre-test is found, notify Hialeah of the issue and arrange for the equipment to be repaired, by normal service channels established by Hialeah.**

**If a failure occurs after reconfiguration, repair the device, or equipment, keeping a log of the time and parts required, for cost true up at the end of the project.**

45. Disable channels 2, 4, 6, 8 and 10 via the Transmitter Interface Board (TIB) switches in both the on-line and off-line controllers.
46. Switch controllers so that the controller with the new codeplug is active.
47. Ensure channels 1, 3, 5, 7 and 9 are working normally.

**If the system fails to operate properly, diagnose the problem, gathering diagnostics from the controller. Return service to the controller, with the original codeplug.**

48. Repeat steps 38 thru 47 for the 2<sup>nd</sup> prime site controller, utilizing codeplug iteration 2, chip 2.
49. Clear T-data alarms on T-Bar switch.
50. Return T-Bar switching control to normal.
51. Measure and record the pre-reconfiguration Rx sensitivity at the station and at the receiver multicoupler input for channels 2, 4, 6, 8 and 10 on all sites.
52. Measure and record the pre-reconfiguration receiver noise impact for channels 2, 4, 6, 8 and 10 on all sites.
53. Measure and record the pre-reconfiguration Tx forward power into the combiner for channels 2, 4, 6, 8 and 10 on all sites.
54. Measure and record the pre-reconfiguration forward/reflected power out of the combiner for channels 2, 4, 6, 8 and 10 on all sites.
55. Change the frequency and align Tx power on repeaters 2, 4, 6, 8 and 10 on all sites.
56. Replace the TX RX combiner critical length cables and tune the transmit combiner ports for channels 2, 4, 6, 8 and 10 on all sites.
57. Measure and record the post-reconfiguration Tx forward power into the combiner for channels 2, 4, 6, 8 and 10 on all sites.
58. Measure and record the post-configuration forward/reflected power out of combiner for channels 2, 4, 6, 8 and 10 on all sites.
59. Perform Simulcast optimization on channels 2, 4, 6, 8 and 10 on all sites.
60. Measure and record the post-reconfiguration Rx sensitivity at the station and at the receiver multicoupler input for channels 2, 4, 6, 8 and 10 on all sites.
61. Measure and record the post-reconfiguration receiver noise impact for channels 2, 4, 6, 8 and 10 on all sites.
62. Enable the reconfigured channels 2, 4, 6, 8 and 10 one at a time and test the functionality by monitoring the call process on the channel.

**If the channel does not operate correctly, disable the channel, diagnose the issue, repair, then re-enable.**

63. Check with the customer to verify system functionality is back to normal. Inform the customer all channels are returned to service.
64. Reload the SAC and MCB (if installed) databases to the Trunked controller(s).
65. Verify the system is operating properly.
66. Retune the 2 backup/spare Quantar repeaters and duplexers stored at the Bucky Dent site.
67. Inform Hialeah that the system has been reconfigured and is fully operational.
68. Perform the FATP with the customer contact.
69. Secure a signed Rebanding Completion Certificate.

### **Fallback Plan**

1. Disable the reconfigured stations that do not operate properly.
2. Fully characterize the failure mode(s), so it can be reported to the Motorola PM.
3. Reinstall the original software and firmware.
4. Reinstall any pre-reconfiguration controller cards, if necessary.
5. Reprogram the base stations with the archive saved in the cutover plan step 7.
6. Retune the transmit combiner ports to the original frequency.
7. Open a sub-CASE to the original project CASE, with the SSC, to get assistance in resolving the issue.

### **System Impact**

1. Each subscriber will out of service while being Retuned or Reprogrammed.
2. System channel capacity will be reduced as each channel is reconfigured.
3. The system will experience a short interruption as the codeplugs and firmware are installed in the CSC card and the controllers are switched.
4. Each site receivers will be out of service while the tower top amplifier filters are being replaced, if required.



***ATTACHMENT F***

***RECONFIGURATION PROJECT SCHEDULE***

Motorola 800 MHz Rebanding Project  
City of Hialeah, FL

Attachment F: Project Schedule

ID	Task Name	Duration	M-1	M1	M2	M3	M4	M5	M6	M7	M8	M9
1	<b>Hialeah FL 800 MHz Rebanding Reconfiguration Schedule</b>	199 days										
2	<b>Kick-Off Phase</b>	7 days										
3	Conduct Kick-Off Meeting - Start Date TBD	1 day										
4	Coordinate Access with Site Owner	2 days										
5	Submit Meeting & Control Docs (Ongoing as Req'd)	0 days										
6	Submit Preliminary Project Schedule	0 days										
7	Customer Provided Schedule Input	2 days										
8	Revise and Finalize Project Schedule	2 days										
9	Project Schedule Acceptance	0 days										
10	<b>Reconfiguration Phase - Subscriber Test and Reconfiguration - 1st Touch</b>	69 days										
11	Update/develop and verify rebanded radio templates	10 days										
12	Reprogram one radio for each template for preliminary subscriber testing	1 day										
13	Verify subscriber communicates properly on existing trunked system	1 day										
14	Reprogram the remaining voice subscribers (25/day) and test	58 days										
15	<b>Reconfiguration Phase - SIMS II</b>	6 days										
16	Install Gen Watch III terminals	2 days										
17	Program Hialeah Database into Gen Watch III, connect CAD IF	1 day										
18	Test GenWatch III	1 day										
19	Remove SIM II from service	2 days										
20	Database Setup and Customer Orientation	3 days										
21	<b>Reconfiguration Phase - SIP</b>	6 days										
22	Install GenWatch III terminals	2 days										
23	Program Hialeah's database into GenWatch III computer/server	1 day										
24	Test GenWatch III	1 day										
25	Remove existing SIP equipment	1 day										
26	Database Setup and Customer Orientation	2 days										
27	<b>Reconfiguration Phase - Pre- Rebanding Testing Phase</b>	3 days										
28	Perform Method 1 RF Analysis on 13 channels at all 3 sites	15 days										
29	Perform Method 3 Drive Test	3 days										
30	<b>Reconfiguration Phase - Bidirectional Amplifiers - 1st Touch</b>	12 days										
31	Verify that bidirectional amplifiers are currently working	5 days										
32	Power down amplifier and replace existing filters with 18Mhz and test	2 days										
		3 days										

Project Hialeah FL Reconfiguration Schedule  
Date: Wed 5/14/08

Task  
Progress  
Milestone

Summary  
Rolled Up Task  
Rolled Up Milestone

Rolled Up Progress  
Split  
External Tasks

Project Summary  
Group By Summary  
Deadline

Motorola 800 MHz Rebanding Project  
City of Hialeah, FL

Attachment F - Project Schedule

ID	Task Name	Duration	M-1	M1	M2	M3	M4	M5	M6	M7	M8	M9
33	<b>Reconfiguration Phase - Tower Top Amps - 1st Touch</b>	5 days										
34	Replace TX/RX tower top amps filters at 3 sites with 18MHz filters	5 days										
35	<b>Reconfiguration Phase - Controller Update Stage - Primary Site (Fire Station 1)</b>	2 days										
36	Record existing controller data, combiner data, station data, coordinate with customer and SSC, test existing system, TTP	2 days										
37	Install new firmware into spare remote site controller	1 day										
38	Power off remote site controller	1 day										
39	Replace active RESC card with spare and power on	1 day										
40	Install new firmware into now spare RESC card	1 day										
41	Power off Remote site controller	1 day										
42	Replace spare RESC card with original card and test	1 day										
43	Test both Prime Controllers and disable T-Bar switching	1 day										
44	Remove power from offline Prime Controller	1 day										
45	Install new firmware and first codeplug in offline Prime Controller and test	1 day										
46	Reload SAC records and MCB records if needed and active subscriber access control	1 day										
47	Disable channels 1,3,5,7,9 on both on-line and off-line controllers	1 day										
48	Switch controllers so the controller with the new firmware and codeplug is active and test	1 day										
49	Remove power from now offline Backup Controller	1 day										
50	Install new firmware and first codeplug in offline Backup Controller and test	1 day										
51	Reload SAC records and MCB records if needed and active subscriber access control	1 day										
52	Switch controllers so the controller with the new firmware and codeplug is active and test	1 day										
53	Return T-Bar to service and test	1 day										
54	Measure VSWR and power on channels 1,3,5,7,9	1 day										
55	Measure VSWR and Power out of combiner for channels 1,3,5,7,9	1 day										
56	Change Frequencies and align TX power on channels 1,3,5,7,9	1 day										
57	Replace TX/RX combiner critical length cables and tune channels 1,3,5,7,9 and test	1 day										
58	Measure VSWR and Power on channels 1,3,5,7,9	1 day										
59	Perform Simulcast optimization on channels 1,3,5,7,9	1 day										
60	Measure Receiver Sensitivity and noise on channel 1,3,5,7,9	1 day										
61	<b>Enable channels 1,3,5,7,9 and test and pause</b>	1 day										
62	Disable T-Bar remote and automatic switching	1 day										
63	Remove power from off-line controller	1 day										

Project Hialeah FL Reconfiguration Schedule

Date: Wed 5/14/08

Task

Progress

Milestone

Summary

Rolled Up Task

Rolled Up Milestone

Rolled Up Progress

Split

External Tasks

Project Summary

Group By Summary

Deadline

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Motorola 800 MHz Rebanding Project  
City of Hialeah, FL

Attachment F Project Schedule

ID	Task Name	Duration	M4-1	M1	M2	M3	M4	M5	M6	M7	M8	M9
64	Install second codeplug in the off-line controller	1 day										
65	Power on controller and test	1 day										
66	Reload SAC records and MCB records if needed and active subscriber access control	1 day										
67	Disable channels 2,4,6,8,10	1 day										
68	Switch to the controller with the new codeplug	1 day										
69	Test channels 1,3,5,7,9 for operation	1 day										
70	Repeat for other controller	1 day										
71	Return T-Bar Switching to service	1 day										
72	Measure Receiver Sensitivity and Noise for channels 2,4,6,8,10	1 day										
73	Measure VSWR and power on channels 2,4,6,8,10	1 day										
74	Measure VSWR and Power from Combiner for channels 2,4,6,8,10	1 day										
75	Change Frequencies and align Transmitters for channels 2,4,6,8,10	1 day										
76	Replace TX/RX combiners critical length cables and tune for channels 2,4,6,8,10	1 day										
77	Measure and record VSWR and power for channels 2,4,6,8,10	1 day										
78	Measure and record VSWR and power from combiner for channels 2,4,6,8,10	1 day										
79	Perform Simulcast optimization on channels 2,4,6,8,10	1 day										
80	Measure and record RX Sensitivity and noise for channels 2,4,6,8,10	1 day										
81	Enable channels 2,4,6,8,10 and test	1 day										
82	Reload SAC records and MCB records if needed and active subscriber access control	1 day										
83	<b>Reconfiguration Phase - Controller Update Stage - Remote Site (PD Site)</b>											
84	Record existing controller data, combiner data, station data, coordinate with customer and SSC, test existing system	2 days										
85	Install new firmware into spare remote site controller	1 day										
86	Power off remote site controller	1 day										
87	Replace active RESC card with spare and power on	1 day										
88	Install new firmware into now spare RESC card	1 day										
89	Power off Remote site controller	1 day										
90	Replace spare RESC card with original card and test	1 day										
91	Measure VSWR and power on channels 1,3,5,7,9	1 day										
92	Measure VSWR and Power out of combiner for channels 1,3,5,7,9	1 day										
93	Change Frequencies and align TX power on channels 1,3,5,7,9	1 day										
94	Replace TX/RX combiner critical length cables and tune channels 1,3,5,7,9 and test	1 day										

Project: Hialeah FL Reconfiguration Schedule  
Date: Wed 3/14/08

Task  
Progress  
Milestone

Summary  
Rolled Up Task  
Rolled Up Milestone

Rolled Up Progress  
Split  
External Tasks

Project Summary  
Group By Summary  
Deadline

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Motorola 800 MHz Rebanding Project  
City of Hialeah, FL

Attachment F - Project Schedule

ID	Task Name	Duration	M-1	M1	M2	M3	M4	M5	M6	M7	M8	M9
95	Measure VSWR and Power on channels 1,3,5,7,9	1 day										
96	Perform Simulcast optimization on channels 1,3,5,7,9	1 day										
97	Measure Receiver Sensitivity and noise on channel 1,3,5,7,9	1 day										
98	Enable channels 1,3,5,7,9 and test and pause	1 day										
99	Measure Receiver Sensitivity and Noise for channels 2,4,6,8,10	1 day										
100	Measure VSWR and power on channels 2,4,6,8,10	1 day										
101	Measure VSWR and Power from Combiner for channels 2,4,6,8,10	1 day										
102	Change Frequencies and align Transmitters for channels 2,4,6,8,10	1 day										
103	Replace TX/RX combiners critical length cables and tune for channels 2,4,6,8,10	1 day										
104	Measure and record VSWR and power for channels 2,4,6,8,10	1 day										
105	Measure and record VSWR and power from combiner for channels 2,4,6,8,10	1 day										
106	Enable channels 2,4,6,8,10	1 day										
107	Perform Simulcast optimization on channels 2,4,6,8,10	1 day										
108	Measure and record RX Sensitivity and noise for channels 2,4,6,8,10	1 day										
109	Enable channels 2,4,6,8,10 and test	1 day										
110	<b>Reconfiguration Phase - Controller Update Stage - Remote Site (Bucky Dent Site)</b>											
111	Record existing controller data, combiner data, station data, coordinate with customer and SSC, test existing system	2 days										
112	Install new firmware into spare remote site controller	1 day										
113	Power off remote site controller	1 day										
114	Replace active RESC card with spare and power on	1 day										
115	Install new firmware into now spare RESC card	1 day										
116	Power off Remote site controller	1 day										
117	Replace spare RESC card with original card and test	1 day										
118	Measure VSWR and power on channels 1,3,5,7,9	1 day										
119	Measure VSWR and Power out of combiner for channels 1,3,5,7,9	1 day										
120	Change Frequencies and align TX power on channels 1,3,5,7,9	1 day										
121	Replace TX/RX combiner critical length cables and tune channels 1,3,5,7,9 and test	1 day										
122	Measure VSWR and Power on channels 1,3,5,7,9	1 day										
123	Perform Simulcast optimization on channels 1,3,5,7,9	1 day										
124	Measure Receiver Sensitivity and noise on channel 1,3,5,7,9	1 day										
125	Enable channels 1,3,5,7,9 and test and pause	1 day										

Project: Hialeah, FL, Reconfiguration Schedule Date: Wed 5/14/08	Task Progress Milestone	Summary Rolled Up Task Rolled Up Milestone	Rolled Up Progress Split External Tasks	Project Summary Group By Summary Deadline	Rev. 06/09/2008 Page 97
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Motorola 800 MHz Rebanding Project  
City of Hialeah, FL

Attachment F: Project Schedule

ID	Task Name	Duration	M-1	M1	M2	M3	M4	M5	M6	M7	M8	M9
126	Measure Receiver Sensitivity and Noise for channels 2,4,6,8,10	1 day										
127	Measure VSWR and power on channels 2,4,6,8,10	1 day										
128	Measure VSWR and Power from Combiner for channels 2,4,6,8,10	1 day										
129	Change Frequencies and align Transmitters for channels 2,4,6,8,10	1 day										
130	Replace TX/RX combiners critical length cables and tune for channels 2,4,6,8,10	1 day										
131	Measure and record VSWR and power for channels 2,4,6,8,10	1 day										
132	Measure and record VSWR and power from combiner for channels 2,4,6,8,10	1 day										
133	Enable channels 2,4,6,8,10	1 day										
134	Perform Simulcast optimization on channels 2,4,6,8,10	1 day										
135	Measure and record RX Sensitivity and noise for channels 2,4,6,8,10	1 day										
136	Enable channels 2,4,6,8,10 and test	1 day										
137	<b>Reconfiguration Phase - Post Rebanding Testing Phase</b>	15 days										
138	Perform Method 1 RF Analysis on 13 channels at all 3 sites	3 days										
139	Perform Method 3 Drive Test	12 days										
140	<b>Reconfiguration Phase - Bidirectional Amplifiers - 2nd Touch</b>	5 days										
141	Verify that bidirectional amplifiers are currently working	2 days										
142	Power down amplifier and replace existing filters with 10Mhz and test	3 days										
143	<b>Reconfiguration Phase - Tower Top Amps- 2nd Touch</b>	5 days										
144	Replace TX/RX tower top amps filters at 3 sites with 10MHz filters	5 days										
145	<b>Reconfiguration Phase - Subscriber Test and Reconfiguration - 2nd Touch</b>	50 days										
146	Modify and verify rebanded radio templates to original frequencies affected by rebanding	7 days										
147	Reprogram one radio for each template for preliminary subscriber testing	1 day										
148	Verify subscriber communicates properly on existing trunked system	1 day										
149	Reprogram the remaining voice subscribers (25/day) and test	42 days										
150	<b>Reconfiguration Phase - True up &amp; Closeout</b>	10 days										
151	System True Up & Punch List resolution	10 days										
152	Customer Rebanding Reconfiguration Acceptance	0 days										

Project: Hialeah FL Reconfiguration Schedule  
Date: Wed 5/14/08

Task  
Progress  
Milestone

Summary  
Rolled Up Task  
Rolled Up Milestone

Rolled Up Progress  
Split  
External Tasks

Project Summary  
Group By Summary  
Deadline

***ATTACHMENT G***  
***EQUIPMENT RETURN PROCESS***



**MOTOROLA**

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## MOTOROLA REBANDING EQUIPMENT RETURN PROCESS

### SUMMARY

All of the Motorola replaced subscriber radios and related accessories must be returned to the address below within the days stated in the approved Frequency Relocation Agreement (FRA) or if not specifically stated in the FRA then 30 days of the new subscriber radios and accessories being shipped. Requests for an extension must be sent to [bruce.ross@motorola.com](mailto:bruce.ross@motorola.com) stating the reason for the request and a proposed new timetable for the returns to be completed. The only exceptions to the return requirement are the cables for trunk mounted mobile radios and mobile antennas which can be discarded on site. Any replaced fixed equipment such as base stations, tower antennas, 6809 boards, firmware, code plugs, computer equipment, system management terminals, Futurecom VRS units, etc must be sent to the Abilene location.

Subscriber shipping destinations for Motorola lead Rebanding projects:

	Original Radio	
Replacement Radio	Motorola	Competitive
Motorola	CTDI - Elgin, IL	CTDI - Elgin, IL
Competitive		Nextel - Abilene, TX

Motorola c/o CTDI		Sprint/Nextel
800 MHz Rebanding Project	or	5520 N 1st Street
2224 Galvin Drive		Abilene, TX 79603
Elgin, IL 60124		

### BASIC PROCESS

#### 1) Serial Number Collection

- A) Gather the serial numbers of all the radios to be returned in that shipment.  
The serial number can be read from the label on the back or bottom of the radio.
- B) If the serial number is not readable on the outside of the radio, obtain the serial number from the radio display or from the programming tool. Affix a separate label to the outside of the radio and write the serial number on the label.
- C) If the serial number is not obtainable using method "B" above, obtain the serial number from your records or any other method then affix a label to the outside of the radio and write the serial number on the label.
- D) If the serial number is not obtainable by any method, affix a label to the outside of the radio and write the Nextel Deal Number followed by a two digit sequential number that is unique to each unit (e.g. 01, 02 etc.) Keep record of the unique numbers used for potential future reference or for reconciliation purposes.

#### 2) Customer Programming

If required by the customer, remove customer specific programming from the radios including talk groups.



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### 3) Packaging material

Reuse the new radio packaging material whenever possible. If reusing packaging material, all existing carrier labels should be removed or covered up. If packaging material is needed then contact Terry Sunday at the Sprint Nextel Abilene warehouse at (800) 599-7255.

### 4) Packing the equipment

Pack the equipment into the boxes in a uniform manner to allow for ease of verification and counts of the equipment at the receiving location. This would include packaging radios such that the serial numbers point outward or upward in the box. This would also include packaging like accessories together in bags or smaller containers with counts noted on the outside of the smaller container which would be placed into the larger box.

### 5) Packing Slip(s)

Create a packing slip for each box by going to <https://etos1.ctdi.com/login/>

Use your deal number (Example: DL1234567890) as the Logon ID.

**\*\* IMPORTANT NOTE:** If you have multiple Deal Numbers, it is important to use the one that is associated with replacement of the equipment being returned in this shipment. If in doubt, please contact your Sprint Nextel Project Manager.

Use the same deal number as your password.

Click on Deal Entry in the top left corner.

Enter your contact information and click "Next".

Enter the Tracking #, if known.

Enter the weight, if known.

Select the Make of the item you are returning.

Select the Type of the item you are returning.

Select the Model of the item you are returning.

Input the quantity for that item you are returning.

Input the serial numbers, if the items are radios by clicking on the "Enter Serial #s" box.

Click the box "Add Line" for the next item to input.

When finished inputting the lines then click the "Build Carton".

Print the packing slip for each carton and include it inside the carton.

Retain a copy of all packing slip(s) for future reference. To retain a soft copy of the packing slip, go to the browser and select File > Edit with Microsoft Word to copy the file to Word.

### 6) Ship

Follow the shipping instructions on the file Rebanding Subscriber Return Shipment Process\_12 20 06\_v1.doc

Nextel will be billed directly from UPS for the shipping cost.

### 7) Reconciliation Resolution

Be prepared to assist in resolving any reconciliation issues that may arise from the comparison of the returns vs. the replacements.



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**REBANDING SUBSCRIBER RETURN PROCESS**

1. Go to <https://www.campusship.ups.com/cship/create>
2. Enter User ID: rebandingprocess (one word – small letters).
3. Enter Password: Sprint (case sensitive).
4. Click Log In.

UPS CampusShip™

Shipping Resources

**Login**

Welcome to UPS CampusShip. To begin, please enter your User ID and Password.  
(Note: User ID and Password fields are case sensitive.)

**Please Log In**

User ID  
rebandingprocess

Password  
Sprint

[Forgot your password?](#)

Change the language of this page:  
[Select Language](#)

[Log In](#)

Company Support: 1-866-763-2444  
[scmtransportation@sprint.com](mailto:scmtransportation@sprint.com)

5. Click on "Corporate Address Book".

UPS CampusShip™

Shipping Resources

**Shipping**

Welcome, SprintIntel | Logout

[My Settings](#)

**Begin Your Shipment**

Please enter your shipping information below. Required fields are shown in bold.

**Address Information**

Ship To:  
Corporate Address Book

Shipper:  
SprintIntel

800 MHz RELOCATION PROJECT

Enter Ship From Address

Enter Ship From City TX 79603

Ship From:  
Sprint

Enter Ship From City TX 79603

☐ Schedule a Pickup

**Shipment Information**

Service:  
UPS Ground Service

Packaging:  
Your Package

Number of Packages:  
1

Package 1 Weight:  
Not required for UPS Letters

lbs

Deal Number:

☐ Print Deal Number on Shipping Label as Bar Code

[Print and Save Shipping Ticket](#)

**Payment Information**

Bill Shipping Charges to:  
Motorola

Shipper's UPS Account  
UPS Account

[Print Shipping Label](#)

[Print Shipping Label](#)

**Other Shipping Services**

Need same-day service for a critical shipment? Contact UPS SonicAir at 1-800-451-4590, or on the web at [sonicair.ups.com](http://sonicair.ups.com)

6. Click on “Show All” and scroll down.

UPS CampusShip: Corporate Address Book - Microsoft Internet Explorer provided by Nextel Communications

Corporate Address Book

Search by Name And Address

Search for:  that  the search terms.

\*OR\*

Search by State/Province/County

State/Province/County: (US/Canada/Ireland)  Other:

\*OR\*

Search by Country

Country:

[Show All](#)

7. Click on the correct destination address, then click Select.

UPS CampusShip: Corporate Address Book - Microsoft Internet Explorer provided by Nextel Communications

State/Province/County: (US/Canada/Ireland)

\*OR\*

Search by Country

Country:

[Show All](#) [Save Address for Future Searches](#)

Please select an address from the results below, or modify your search.

Display Per Page:

Displaying 1 - 2 of 2

Nickname	Address	City	State/Province/County	Country
Ship To Motorola	2224 Galvin Dr	Elgin	IL	US
Ship To Sprint	5520 W 13th Street	Abilene	TX	US

Displaying 1 - 2 of 2

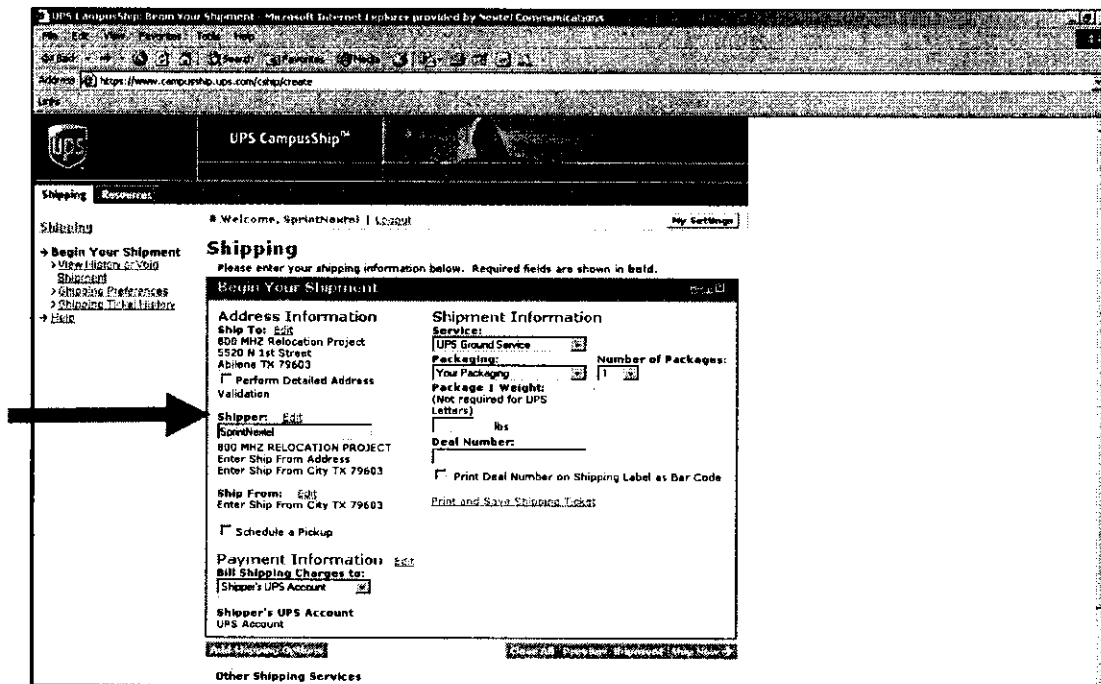
Need same-day service for a critical shipment? Contact UPS SonicAir at 1-800-451-4550, or on the web at [4550.ups.com/usa/usa](http://4550.ups.com/usa/usa)



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## 8. Now click on "Shipper" Edit.



UPS CampusShip™

Shipping Resources

Shipping

Begin Your Shipment

Please enter your shipping information below. Required fields are shown in bold.

Address Information

Ship To: **800 MHz Relocation Project**  
 5520 N 1st Street  
 Abilene TX 79603

☐ Perform Detailed Address Validation

Shipper: **Edit**  
 SprintNextel  
 800 MHz RELOCATION PROJECT  
 Enter Ship From Address  
 Enter Ship From City TX 79603

Ship From: **Edit**  
 Enter Ship From City TX 79603

☐ Schedule a Pickup

Payment Information **Edit**  
 Bill Shipping Charges to:  
 Shipper's UPS Account ☒

Shipper's UPS Account  
 UPS Account

Shipment Information

Service: **UPS Ground Service**

Package Count: **1** Number of Packages: **1**

Your Package  
 Package 1 Weight: **1** lbs  
 (Not required for UPS Letters)

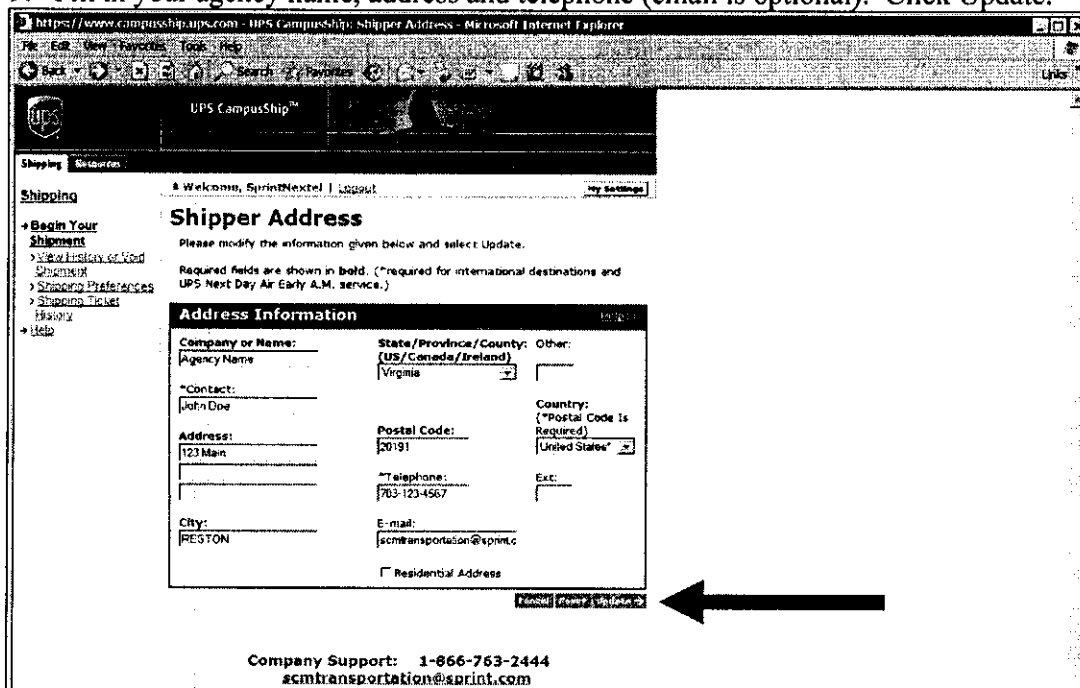
Deal Number: **1**

☐ Print Deal Number on Shipping Label as Bar Code

Print and Save Shipping Label

Other Shipping Services

## 9. Fill in your agency name, address and telephone (email is optional). Click Update.



UPS CampusShip™

Shipping Resources

Shipping

Shipper Address

Please modify the information given below and select Update.

Required fields are shown in bold. (\*required for international destinations and UPS Next Day Air Early A.M. service.)

Address Information

Company or Name: **Agency Name** State/Province/Country: Other: **(US/Canada/Ireland)**  
 Virginia

\*Contact: **John Doe** Country: **(\*\*Postal Code is Required)**  
 United States

Address: **123 Main** Postal Code: **20191**

\*Telephone: **703-123-4567** Ext: **1**

City: **RESTON** E-mail: **scmtransportation@sprint.com**

☐ Residential Address

Update

Company Support: 1-866-763-2444  
 scmtransportation@sprint.com

## 10. Click on "Ship From" Edit.

UPS CampusShip: Begin Your Shipment - Microsoft Internet Explorer powered by Nextel Content Solutions

Address: https://www.campusship.ups.com/ship/create

Shipping Resources: Welcome, SprintNextel | Logout | My Settings

**Shipping**

Begin Your Shipment

Please enter your shipping information below. Required fields are shown in bold.

<b>Address Information</b> Ship To: Edit 800 MHz Relocation Project 5520 N 1st Street Abilene TX 79603 <input type="checkbox"/> Perform Detailed Address Validation Shipper: Edit John Doe company name 123 Main RESTON VA 20191 Ship From: Edit Enter Ship From City TX 79603 <input type="checkbox"/> Schedule a Pickup Payment Information Edit Bill Shipping Charges to: Shipper's UPS Account Shipper's UPS Account UPS Account	<b>Shipment Information</b> Service: UPS Ground Service Packaging: Your Packaging Package 1 Weight: (Not required for UPS Letters) lbs Deal Number: <input type="checkbox"/> Print Deal Number on Shipping Label as Bar Code Print and Save Shipping Tickets
--	--

UPS Shipping Options | Cancel | Previous Shipment | Ship Now

## 11. Enter Ship From information. Click Update.

https://www.campusship.ups.com UPS CampusShip: Ship From Address - Microsoft Internet Explorer

Back View Favorites Tools Help

UPS CampusShip

Shipping Resources: Welcome, SprintNextel | Logout | My Settings

**Ship From Address**

Please modify the information given below and select Update.

Required fields are shown in bold. (\*Required for international destinations and UPS Next Day Air Early A.M. service.)

<b>Address Information</b> Company or Name: Agency Name *Contact: John Doe Address: 123 Main City: RESTON State/Province/Country: Other: (US/Canada/Ireland) Virginia Country: (*Postal Code is Required) (United States*) Postal Code: 20191 *Telephone: 703-123-4567 Ext: E-mail: scmtransportation@sprint.com <input type="checkbox"/> Residential Address
--

Printed | Cancel | Update

Update

Company Support: 1-866-763-2444  
scmtransportation@sprint.com



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12. A) Choose "UPS Ground Service" and ALWAYS choose "Your Packaging".
- B) Guess and enter the package weight.
- C) Add your Deal Number.
- D) Check the "Schedule a Pickup" box and click on Ship Now.

The screenshot shows the "Begin Your Shipment" form on the UPS CampusShip website. The form is divided into several sections: Address Information, Shipment Information, Payment Information, and Other Shipping Services. Annotations A, B, C, and D point to specific fields:

- A** points to the "Service" dropdown menu in the "Shipment Information" section, which is currently set to "UPS Ground Service".
- B** points to the "Package 1 Weight" field in the "Shipment Information" section, which is currently set to "10 lbs".
- C\*\*** points to the "Deal Number" field in the "Shipment Information" section, which is currently set to "DL 52545678901".
- D** points to the "Schedule a Pickup" checkbox in the "Payment Information" section, which is currently unchecked.

A note box at the bottom left states: "Note: 'Shipper's UPS Account' means that Sprint's account will be used for this shipment." This note points to the "Shipper's UPS Account" field in the "Payment Information" section, which is currently set to "Shipper's UPS Account".

**\*\* IMPORTANT NOTE:** If you have multiple Deal Numbers, it is important to use the one that is associated with replacement of the equipment being returned in this shipment. If in doubt, please contact your Sprint Nextel Project Manager.

## 13. Enter Pickup dates. Click on Continue.

**UPS On-Call Pickup<sup>SM</sup>**

UPS On-Call Pickup service gives you the convenience of having your package picked up at your home or office in major metropolitan areas, Monday through Saturday. Required fields are shown in bold.

**Scheduling Information**

Pickup Date  
Monday, October 9, 2006

Shipment Ready at:  
12 : 00 A.M. P.M.

Pick Up by:  
05 : 00 P.M.

**Customer Information**

Ship From Address Edit  
John Doe  
Agency Name  
703-123-4567  
123 Main  
RESTON VA 20191  
UNITED STATES

**Additional Pickup Information**

Suite/Room Floor  
Pickup Location  
Choose One

**Contact Information**

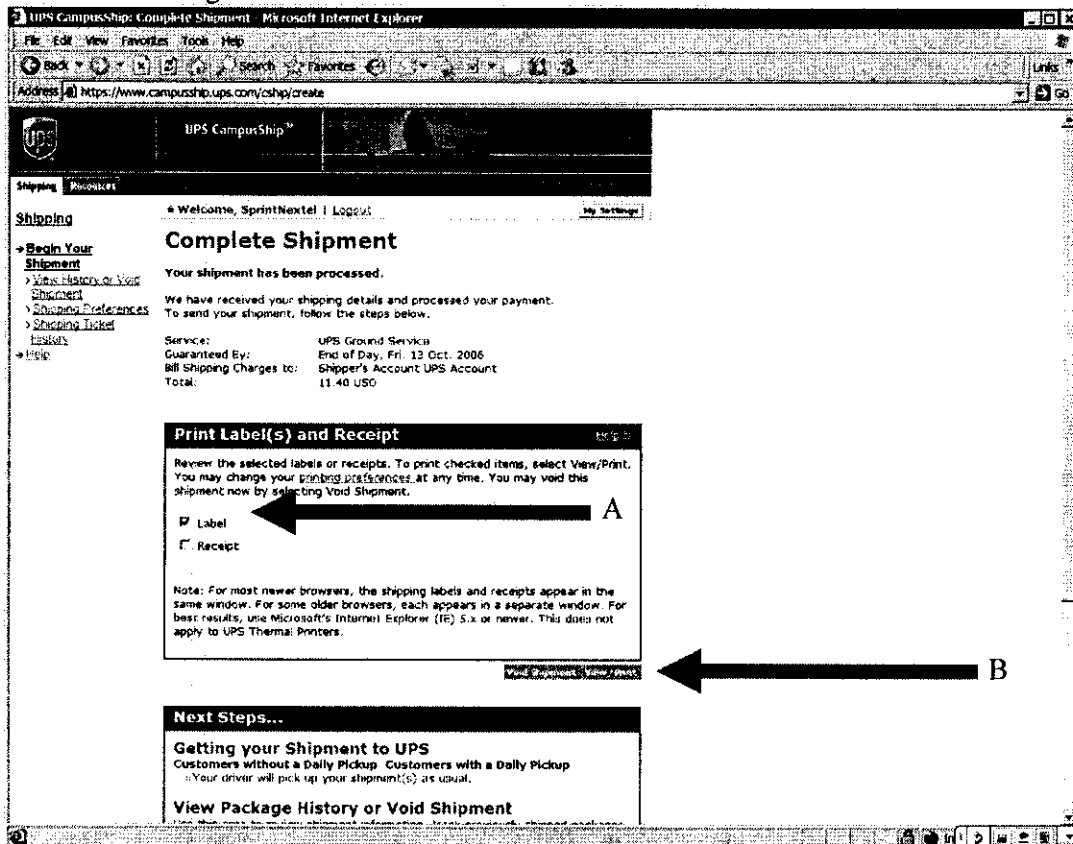
Contact Name  
John Doe

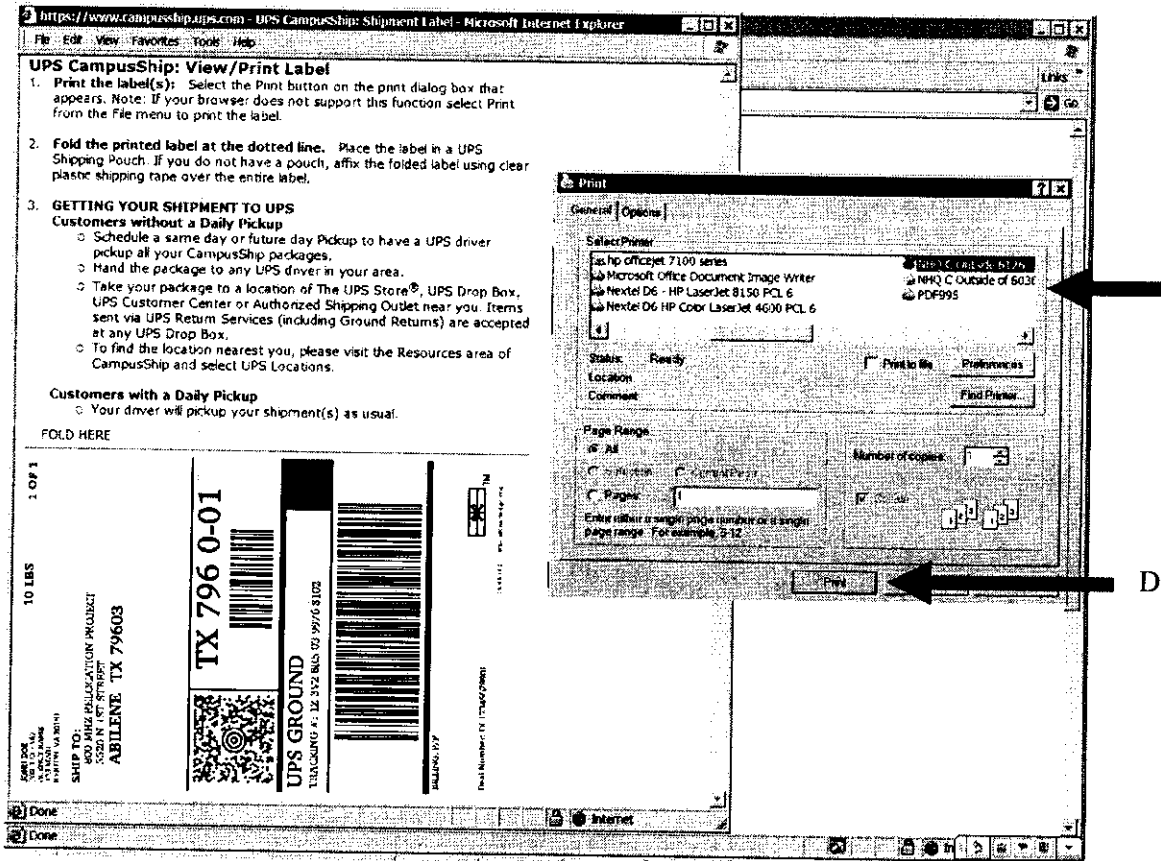
Telephone Ext.  
703-123-4567

**Continue**

## 14. Print your label by:

- A. Checking the "Label" box.
- B. Clicking View/Print.
- C. Selecting your printer from the print dialog box that appears.
- D. Clicking Print.





15. Adhere the label to the package and wait for UPS to pickup.